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WATER YEAR BOOK
Vol.-II, WATER QUALITY DATA

जून 2017 – मई 2018
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कावेरी बेसिन
CAUVERY BASIN



कावेरी एवं दक्षिणी नदियाँ परिमण्डल, बेंगलुरु
CAUVERY & SOUTHERN RIVERS CIRCLE, BENGALURU

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प्रस्तावना

जल लगभग सीमित मात्रा में उपलब्धता के साथ एक कीमती प्राकृतिक संसाधन है। स्वच्छ जल पूरी दुनिया में दिन-व-दिन एक दुर्लभ वस्तु बन गया है। यह योजना है कि जल संसाधनों का श्रेष्ठतम उपयोग के लिए एक अच्छी तरह से विकसित डाटा बैंक हो और नियमित रूप से डाटा बैंक का अद्यतन किया जाना चाहिए। जल संसाधन बढ़ाने के अलावा, पानी की गुणवत्ता की निगरानी का काम भी किया जाना आवश्यक है। जल संसाधन, नदी विकास और गंगा संरक्षण मंत्रालय के अंतर्गत, केन्द्रीय जल आयोग, जल संसाधन क्षेत्र के शीर्ष मंत्रालय का निकाय होने के अतिरिक्त, भारत के विभिन्न नदी घाटियों का जल विज्ञानीय आकड़ा संग्रह का एक विशाल नेटवर्क प्रणाली बनाये रखा है।

आकड़ा के कम्प्यूटरीकरण के आगमन से जल वर्ष पुस्तक के प्रकाशन प्रारूप में बहुत परिवर्तन आया है। संसोधित प्रारूप के अनुसार, कावेरी बेसिन 2017-18 का जल वर्ष पुस्तक दो खण्डों में किया गया। प्रथम खण्ड में नदी धारा प्रवाह एवं निलम्बित तलघट आकड़े तथा द्वितीय खण्ड में जल गुणवत्ता आकड़े एवं प्रमुख नदियों के जल गुणवत्ता प्रचलन / परिदृश्य दिये गये हैं। कावेरी बेसिन के अन्तर्गत जल गुणवत्ता की निगरानी, 35 जल विज्ञानीय प्रेक्षण स्थलों पर किया जाता है। जिसमें दक्षिणी नदियाँ मंडल, कोयम्बतूर 13 स्थलों, जल विज्ञानीय मंडल, चेन्नई 07 स्थलों, दक्षिण पश्चिमी नदियाँ मंडल, कोचिन 1 स्थल तथा कावेरी मंडल, बेंगलुरु 14 स्थलों की निगरानी उक्त मंडलों के अधीन किया जाता है। उक्त स्थलों से एकत्रित किये गये जल नमूनों का विश्लेषण मण्डलीय प्रयोगशाला कोयम्बतूर, चेन्नई, कोचिन एवं बेंगलुरु द्वारा किया जाता है।

जल नमूना सीधे स्थलों से सम्बन्धित प्रयोगशालाओं में विश्लेषण हेतु भेजा जाता है। भौतिक, रासायनिक, जैविक तथा विषाक्त (पैरामीटर) प्राचल का विश्लेषण किया जाता है। तीन रासायनिक सूचकांको का आकड़ा गणितीय विधि से निकाला जाता है। सिंचाई की उपयुक्तता के लिये अमेरिकन सैलिनिटी रेखाचित्र (विलकाक्स डायग्राम) के द्वारा जल का वर्गीकरण किया जाता है।

कावेरी बेसिन के जल ग्रहण क्षेत्र का आकड़ा इस प्रकाशन में प्रस्तुत किया गया है। यह जल संसाधन के योजनाकारों, प्रबन्धकों और जल के उपयोग कर्ताओं के लिये बहुत उपयोगी है। अनुसंधान एवं विकास संस्थानों, योजनाओं, पीने के जल की पूर्ति, सिंचाई, औद्योगिक एवं मल निपटान योजनाओं के लिये विशेष रूप से उपयोगी है।

इस परिमण्डल के अन्तर्गत दक्षिणी नदियाँ मण्डल-कोयम्बतूर, जल विज्ञानीय मण्डल-चेन्नई, दक्षिण पश्चिमी नदियाँ मण्डल-कोचिन एवं कावेरी मण्डल-बेंगलुरु के प्रयासों से इस पुस्तक का प्रकाशन हुआ। सभी प्रशंसा के पात्र हैं।

बेंगलुरु
मार्च, 2019

वू. मोहन मुरलि
(वू. मोहन मुरलि)
अधीक्षण अभियंता
कावेरी एवं दक्षिणी नदियाँ परिमण्डल

P R E F A C E

Water is a precious natural resource with almost fixed quantum of availability. Fresh water has been becoming a scarce commodity day by day in whole world. It's planning and optimal utilization calls for a well developed Data Bank and maintenance of the Data Bank by regular updating is equally important. Besides quantifying the Water Resources, the work of monitoring the Quality of Water is also required to be done. Central Water Commission under the Union Ministry of Water Resources, besides being an apex body on Water Resources Sector, has been maintaining a vast system of Hydrological Network in different River Basins in India.

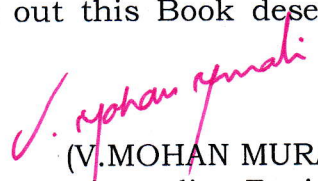
With the advent of computerisation of the data, the format of publishing the Water Year Book has also undergone lot of changes. As per the revised format, the Water Year Book for Cauvery Rivers Basin for 2017-18 is published in Two Volumes, Volume-I Containing the Stream Flow and Suspended Sediment Data and the Volume-II containing the Water Quality Data. Though there are 35 Hydrological Stations under Cauvery Basin the Water quality is being monitored at 13 stations under SRD, Coimbatore, 07 stations under HD, Chennai, 01 station under SWRD, Kochi and 14 stations under CD, Bangalore. The Water samples collected at these Stations are being analyzed at Divisional laboratories situated at Bangalore, Coimbatore, Chennai and Kochi.

The water samples received directly in the respective laboratories are analyzed for parameters which include Physical, Chemical, Biological & Toxic Elements. In addition to these parameters three Chemical Indices are derived mathematically from the observed data. Waters are classified with the help of US Salinity Diagram (Wilcox Diagram) for its Irrigation suitability.

The Data presented in this publication is useful to the Water Resources Planners, Managers and Water Users in the Catchment of Cauvery Rivers Basin. The data may be especially useful for R&D institutions, planning, drinking water supply, Irrigation, Industrial and sewage disposal schemes.

The efforts made by the Cauvery Division, Bangalore, Southern Rivers Division, Coimbatore, Hydrology Division, Chennai & South Western Rivers Division, Kochi, in bringing out this Book deserves appreciation.

Bangalore
March, 2019


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Superintending Engineer
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विषय सूची/CONTENTS

क्र.सं.		पृ.सं.
1	परिचय / Introduction	
1.1	कार्य क्षेत्र / Scope	1
1.2	प्रेक्षण तकनीक / Observation Technique	2
1.3	सूचना स्रोत / Sources of Information	2
2	जल गुणवत्ता आकड़ा / Water Quality Data	
2.1	विस्तार नोट / Explanatory Note	4
2.2	प्रदर्शन विधि / Method of Presentation	5
2.3	जल गुणवत्ता स्थिति / Water Quality Status	6
3	कावेरी नदियाँ बेसिन (विश्लेषणात्मक आकड़े) / Cauvery Rivers Basin (Analytical Data)	
3.1	पुराविडायनार पर गोपुराजपुरम / Puravidaiyanar at Gopurajapuram	17
3.2	नट्टार पर अन्नावसल / Nattar at Annavasal	30
3.3	नन्दलार पर नल्लाथुर / Nandalur at Nallathur	42
3.4	नूलार पर मेननगुडी / Noolar at Menangudi	55
3.5	अरासलार पर पोराकुडी / Arasalar at Porakudi	68
3.6	वन्जीयार पर पेरालम / Vanjiyar at Peralam	81
3.7	तिरुमलाईराजनार पर थेन्गुडी / Thirumalairajanar at Thengudi	94
3.8	कावेरी पर मुसिरी / Cauvery at Musiri	107
3.9	अमरावती पर नल्लामारनपट्टी / Amaravathi at Nallamaranapatty	120
3.10	नोय्यल पर ईलुनुथीमंगलम / Noyyal at Elunuthimangalam	133
3.11	कावेरी पर कोडुमुडी / Cauvery at Kodumudi	152
3.12	भवानी पर सवन्दापुर / Bhavani at Savandapur	165
3.13	मोयर पर थेन्गुमराहाडा / Moyar at Thengumarahada	178
3.14	गान्धयार पर गान्धावायल / Gandhayar at Gandhavayal	191
3.15	भवानी पर नेल्लिथुरई / Bhavani at Nellithurai	200
3.16	कावेरी पर उरचिकोट्टई / Cauvery at Urachikottai	212
3.17	सरबेन्गा पर थेवुर / Sarabenga at Thevur	231
3.18	चित्तार पर सेवानुर / Chittar at Sevanur	243
3.19	थोप्पईयार पर थोप्पुर / Thoppaiyar at Thoppur	256
3.20	पालार पर कुडलुर / Palar at Kudlur	269
3.21	चिन्नार पर होगेनेक्कल / Chinnar at Hogenakkal	282



3.22	कावेरी पर बिलिगुंडुलु / Cauvery at Biligundulu	292
3.23	अर्कावथी पर टी. बेकुप्पे / Arkavathi at T.Bekuppe	305
3.24	शिम्शा पर टी.के.हल्ली / Shimsha at T.K.Halli	326
3.25	कावेरी पर कोलेगल / Cauvery at Kollegal	344
3.26	सुवर्णवती पर बेन्द्राहल्ली / Suvarnavathi at Bendrahalli	357
3.27	काबिनी पर टी. नरसिपुर / Kabini at T.Narasipur	369
3.28	काबिनी पर मुथनकेरा / Kabini at Muthankera	382
3.29	लक्ष्मणतीर्था पर के.एम.वाडी / Lakhshmanthirtha at K.M.Vadi	393
3.30	हेमावती पर अक्कीहेब्बल / Hemavathi at Akkihebbal	406
3.31	हेमावती पर एम.एच.हल्ली / Hemavathi at M.H.Halli	419
3.32	यागची पर थिम्मनहल्ली / Yagachi at Thimmanahalli	432
3.33	हेमावती पर सकलेशपुर / Hemavathi at Sakaleshpur	445
3.34	कावेरी पर चुनचुनकाट्टे / Cauvery at Chunchunkatte	458
3.35	कावेरी पर कुडिगे / Cauvery at Kudige	470
4	जल गुणवत्ता परिदृश्य / Water Quality Scenario	483
5	संलग्नक / Annexure	
5.1	कावेरी नदियाँ बेसिन का जल विज्ञानीय नक्शा / Map showing Hydrological Observation Stations in Cauvery Rivers Basin	513
5.2	विलकाक्स डायग्राम / Wilcox Diagram	514
5.3	संक्षिप्ति एवं विश्लेषण / Abbreviations and Symbols	515
5.4	सहनशीलता सीमा – सिंचाई, औद्योगिक शीतलता एवं सीमित कूड़ा-कचरा निष्कासन के लिये जल गुणवत्ता मानदण्ड / Tolerance limits – Water Quality Parameters for use in Irrigation, Industrial Cooling and Controlled Waste Disposal	516
5.5	सहनशीलता – अन्य उपयोग हेतु चयनित जल गुणवत्ता मानदण्ड / Tolerance limits of the selected water quality parameters for other purposes	517



1. INTRODUCTION

1.1 Scope

Water quality data of 35 stations in the Cauvery basin are presented in this volume, for the year 2017-2018. The parameters covered in the data are as under:

1.1.1 Physical

River Discharge, Colour, Odour, Temperature, pH, Electrical Conductivity and T.D.S.

1.1.2 Chemical

Potassium, Sodium, Calcium, Magnesium, Iron, Ammonium, Carbonate, Bicarbonate, Chloride, Fluoride, Sulphate, Nitrate, Nitrite, Phosphate, Silicate, Total Alkalinity, Phenolphthalein Alkalinity and Boron.

1.1.3 Biological/Bacteriological

D.O., B.O.D and C.O.D.; Total Coliform and Fecal Coliform

1.1.4 Trace & Toxic

Arsenic, Cadmium, Chromium, Copper, Mercury, Nickel, Lead and Zinc.

1.1.5 Chemical Indices

Hardness Number, Sodium Percentage, Sodium Adsorption Ratio, Residual Sodium Carbonate and USSL Classification.

1.2 Observation Technique

1.2.1 River water samples:

At each station one litre of river water sample is collected at a point of maximum flow and depth in the cross section at a depth of 10 - 20 cm below the water surface in a polythene bottle with double screw cap.

The polythene bottles are labeled with the requisite details of the sampled water and sent through a special messenger to the respective water quality research laboratory for detailed analysis.

1.3 Sources of Information

The water quality stations for which data is presented in this volume include 13 stations under SRD, Coimbatore, 7 stations under HD, Chennai, 1 station under SWRD, Kochi and 14 stations under CD, Bangalore. The details of all the above mentioned stations are as follows:

Cauvery Basin

Sl. No.	Station Name	Station Code	Type of Station
1.	Puravidaiyanar at Gopurajapuram	CCA32D2	GDQ
2.	Nattar at Annavasal	CCA21G5	GDQ
3.	Nandalar at Nallathur	CCA12G3	GDQ
4.	Noolar at Menangudi	CCA23N4	GDQ
5.	Arasalar at Porakudi	CCA20G5	GDQ
6.	Vanjiyar at Peralam	CCA22S5	GDQ
7.	Thirumalairajanar at Thengudi	CCA31N6	GDSQ
8.	Cauvery at Musiri	CC000G4	GDSQ
9.	Amaravathy at Nallamaranpatty	CCD00D5	GDSQ
10.	Noyyal at Elunuthimangalam	CCF00A4	GDSQ
11.	Cauvery at Kodumudi	CC000I7	GDSQ
12.	Bhavani at Savandapur	CCG00E3	GDSQ
13.	Moyar at Thengumarahada	CCGI0E9	GDSQ
14.	Gandhayar at Gandhavayal	CCG20C8	GDSQ
15.	Bhavani at Nellithurai	CCG00Q8	GDSQ
16.	Cauvery at Urachikottai	CC000K5	GDSQ
17.	Sarabenga at Thevur	CCH00C3	GDQ
18.	Chittar at Sevanur	CCI00C4	GDQ
19.	Thoppaiyar at Thoppur	CCJ00I2	GDQ
20.	Palar at Kudlur	CCK00L9	GDSQ
21.	Chinnar at Hogenakkal	CCS00A9	GDQ
22.	Cauvery at Biligundulu	CC000N7	GDSQ
23.	Arkavathi at T.Bekuppe	T.BEKUPPE	GDSQ
24.	Shimsha at T.K.Halli	CCM00B9	GDSQ
25.	Cauvery at Kollegal	CC000R5	GDSQ
26.	Suvarnavathi at Bendrahalli	CCN00J5	GDQ
27.	Kabini at T.Narasipur	CCP00B1	GDSQ
28.	Kabini at Muthankera	CCP00T8	GDSQ
29.	Lakshmanthirtha at K.M.Vadi	CCQ00E9	GDQ
30.	Hemavathi at Akkihebbal	CCR00B7	GDSQ
31.	Hemavathi at M.H.Halli	CCR00M8	GDSQ
32.	Yagachi at Thimmanahalli	CCRIOF7	GDQ
33.	Hemavathi at Sakleshpur	CCR00U6	GDSQ
34.	Cauvery at Chunchunkatte	CC000V7	GDQ
35.	Cauvery at Kudige	CC000Y5	GDSQ

2. WATER QUALITY DATA

2.1 Explanatory Note

The explanatory note described here below is designed to assist in the interpretation of various parameters contained in the data presented subsequently.

- i) The water samples are collected at a regular frequency of once in a month from Trend / Flux stations and once in two months from Base line stations, usually on the first working day, from the main flowing portion of the stream. The Trace and Toxic elements are analysed once in a year during the month of May.
- ii) The collected water samples are neatly labeled and sent to the respective Divisional Laboratory for analysis.
- iii) Chemical indices namely Hardness number, Sodium Percentage, Sodium Adsorption Ratio and Residual Sodium Carbonates are computed as follows:
 - a) Hardness number is by adding the total Calcium and Magnesium in the sample expressed as equivalent parts of Calcium Carbonate (CaCO_3)
 - b) Sodium percentage (S.P) is given by

$$\text{S.P} = \frac{Na^+ \times 100}{[Ca^{2+} + Mg^{2+} + Na^+ + K^+]}$$

Ionic concentrations are in meq/L.

- c) Sodium Adsorption Ratio (SAR) is given by:

$$\text{S.A.R} = \frac{Na^+}{\sqrt{\frac{(Ca^{2+} + Mg^{2+})}{2}}}$$

Ionic concentrations are in meq/L.

d) Residual Sodium Carbonate (RSC) is given by

$$\text{RSC} = (\text{CO}_3^{2-} + \text{HCO}_3^-) - (\text{Ca}^{2+} + \text{Mg}^{2+})$$

Ionic concentrations are in meq/L.

- iv) Based on Electrical Conductance (E.C) and Sodium Adsorption Ratio (S.A.R), the water samples have been classified as per U.S. Salinity Laboratory standards using Wilcox diagram (Annexure – II)
- v) Water year is from 1st June of one calendar year to 31st May of the next calendar year.
- vi) Measuring authority refers to the field division responsible for the collection of water sample. The name of the division is abbreviated by taking first alphabet of each word followed by alphabets 'D' for division. For example "SOUTHERN RIVERS DIVISION" by "SRD" and "HYDROLOGY DIVISION" by "HD".
- vii) The station code number is a unique seven column alphanumeric reference number which facilitates storage and retrieval of water quality data in data banks. The first column is the identifier of either an integral river basin or for convenience, a region having several continuous river catchment areas. This is followed by a column which identifies an independent river system which either have one or more outlets to the sea or crosses international border to enter into another country. The third, fourth and fifth column space denote first, second and third order tributaries respectively from the mouth upstream. The sixth and seventh column spaces indicate the location of the gauging station in one of the 225 slots earmarked on the river. The blank column spaces are filled by zero.

2.2. Method of presentation

In the succeeding pages station wise water quality data is presented comprising History sheet, Water Quality data sheet for 2017-18, Water Quality Summary for 2017-18 and Water Quality Seasonal Average for 2007-2018. The serial of the water quality observation stations is arranged from the mouth of the river upstream, giving intense priority to an intermediate tributary station in similar fashion.

History sheet gives concise description of the water quality observation stations. Tables on the water quality analysis give the ionic concentrations of various parameters in mg/L. The samples are collected for water quality analysis once a month as already mentioned in para 2.1 above. Owing to shortage of infrastructure facilities all the parameters are not necessarily analyzed.

2.3. WATER QUALITY STATUS

2.3.1. RIVER WATER:

The river Cauvery originates at Talakaveri in Coorg District of Karnataka in Brahmagiri Range of hills in the Western Ghats at an elevation of 1341m (above MSL) and drains a total area of 81,155 Sq.Kms of which 34,273 Sq.Kms. lies in Karnataka, 43,856 Sq.Kms. in Tamil Nadu, 2,866 Sq.Kms. in Kerala and 160 Sq.Kms. in the Union Territory of Pondicherry. The total length of the river from the origin to its outfall into the sea is 800 Km. of which 320 Km is in Karnataka, 416 Km in Tamilnadu and 64 Km forming the common border between the Karnataka and Tamilnadu states. The Cauvery basin is fan shaped in Karnataka and leaf shaped in Tamilnadu. The run-off does not drain off quickly because of its shape and therefore no fast raising floods occur in the basin. The basin receives rainfall mainly from the S-W Monsoon and partially from N-E Monsoon in the Karnataka. This river basin in Tamilnadu receives good flow from the North East Monsoon.

The Cauvery river system consists of 21 principal tributaries each with Catchment Area exceeding 250 Sq.Kms. The largest among them are the Catchment Area of Shimsha lying wholly in Karnataka, the Amaravathi rising in Kerala but lying mostly in Tamil Nadu and the Kabini rising in both Kerala and Tamil Nadu but lying mostly in Karnataka. The Bhavani is the fourth largest and the second longest river. Bhavani River originates from Nilgiri hills of the Western Ghats, enters the Silent Valley National Park in Kerala and flows back towards Tamil Nadu. The longest tributary, the Hemavathi (245 Kms.) is the fifth largest in Catchment Area and lies wholly in Karnataka.

From the point of view of flow contribution to the Cauvery river system, the water quality status of the whole Cauvery Basin is divided into the water quality status of main river Cauvery; tributaries such as Hemavathi, Lakshmanthirtha, Kabini, Suvarnavathi, Shimsha, Arkavathi, Chinnar, Palar, Thoppaiyar, Chittar, Sarabenga,

Bhavani, and Amaravathi; Noyyal (the most polluted tributary) and the distributaries of Cauvery delta region.

2.3.2. The Water Quality Status of Main River Cauvery

There are 7 water quality stations on the main river Cauvery before it forms distributaries in the Cauvery delta of Karaikal region. They are in the order from its origin are **Kudige, Chunchunkatte, Kollegal, Biligundulu, Urachikottai, Kodumudi and Musiri.**

Cauvery river water is generally alkaline in nature, and the pH varied from 7.1 (Kudige) to 9.0 (Kodumudi). It is observed that the ionic concentration is gradually increasing from the upstream to downstream. Electrical Conductivity (EC) values show variety of results. The minimum EC observed is 48 $\mu\text{mhos/cm}$ (Kudige) and the maximum is 1112 $\mu\text{mhos/cm}$ (Kodumudi). The major cationic constituents are Sodium, Calcium, Magnesium and Potassium; their maximum values are 152.0 mg/L (Kodumudi), 50.0 mg/L (Billigundulu), 37.9 mg/L (Kodumudi) and 12.9 mg/L (Kodumudi) and their minimum values are 1.9 mg/L (Kudige), 5.0 mg/L (Kudige), 0.7mg/L (Kudige) and 0.5 mg/L (Kudige) respectively. Among the anionic constituents Bicarbonate is the major anion followed by Chloride and Sulphate; their maximum values are 223.0 mg/L, 203.7 mg/L and 78.4 mg/L all at Kodumudi and their minimum values are 7.0 mg/L, 0.7 mg/L both at Kollegal and 0.5 mg/L at (Kudige) respectively. Carbonate is found only at 4 stations namely Billigundulu, Urachikottai, Kodumudi and Musiri and its maximum concentration observed is 47.7 mg/L (Billigundulu). Small quantities of Iron, Boron, Fluoride, Nitrate, Phosphate and Silicate are also found in water samples of this river. Regarding biological parameters only DO, BOD and COD are analysed. All the parameters are within the tolerance limit and the water is classified as C_1S_1 (Kudige & Chunchunkatte), C_2S_1 (Kollegal, Urachikottai) and C_3S_1 (Biligundulu, Musiri & Kodumudi) category.

2.3.3. The Water Quality Status of Tributaries of Cauvery:

2.3.3.1. The Hemavathi

The Hemavathi rises in the Western Ghats and runs South-East. After a stream from the West joins it, it turns East, receiving the Yagachi from the North. It then winds round Holenarasipur and runs South to the Cauvery near Yedatore. There are four

stations in this basin i.e. the site at **Sakeleshpur, M.H.Halli** and **Akkihebbal** in the main river, rest on the tributary Yagachi at **Thimmanahalli**.

The water of this river is slightly alkaline in nature and the pH varied from 6.7 (Sakeleshpur) to 7.9 (Akkihebbal). The minimum Electrical Conductivity observed is 66 $\mu\text{mhos/cm}$ (Sakeleshpur) and the maximum is 437 $\mu\text{mhos/cm}$ (Thimmanahalli). In this river water, the predominant cation is Calcium followed by Sodium, Magnesium and Potassium; their maximum values are 44.0 mg/L (Thimmanahalli), 34 mg/L (Thimmanahalli), 22.4 mg/L (Akkihebbal) and 12.8 mg/L (Thimmanahalli). Their minimum values are 4.0 mg/L, 3.0 mg/L, 0.7 mg/L and 0.9 mg/L all at Sakeleshpur respectively. Bicarbonate is the predominant anion followed by Chloride, Silicate and Sulphate; their maximum values are 209.0 mg/L (Akkihebbal), 48.3 mg/L (Thimmanahalli), 32.9 mg/L (Thimmanahalli) and 15.1 mg/L (Akkihebbal) and their minimum values are 24.0 mg/L (Sakeleshpur), 0.2 mg/L (M.H.Halli), 1.0 mg/L (M.H.Halli) and 0.3 mg/L (Sakeleshpur). Small quantities of Iron, Boron, Fluoride, Nitrate and Phosphate are also found in water samples of this river. Regarding biological parameters only DO and BOD are analysed. All the parameters are within the tolerance limit for all the stations. The water is classified as good water and it comes under C_1S_1 (Sakeleshpur & M.H.Halli) and C_2S_1 (Thimmanahalli & Akkihebbal) category.

2.3.3.2. The Lakshmanathirtha

The Lakshmanathirtha is a tributary of the Cauvery. It originates from Kodagu district and flows Eastward. It joins the river Cauvery just above the K.R. Sagar Reservoir. The catchment area of Lakshmanathirtha river is 1690 Sq.Km and the length is 131 Km.

The only water quality station in this river is at **K.M. Vadi** and water is alkaline in nature and the pH varied from 7.2 to 7.5. The Electrical Conductivity is ranging from 130 to 229 $\mu\text{mhos/cm}$. Predominant cation is Calcium followed by Magnesium, Sodium and Potassium; their maximum values are 18.0 mg/L, 14.6 mg/L, 9.0 mg/L and 2.6 mg/L respectively. Their minimum values are 11.0 mg/L, 6.1 mg/L, 6.0 mg/L and 1.8 mg/L respectively. Bicarbonate is the predominant anion followed by Chloride and Sulphate; their maximum values are 106.0 mg/L, 13.1 mg/L and 9.0 mg/L respectively. Their minimum values are 59.0 mg/L, 10.7 mg/L and 4.3 mg/L respectively. Small quantities of Iron, Boron, Fluoride, Phosphate and Silicate are also found in water sample of this

river. All parameters are within the tolerance limit. The water is classified as good water and it comes under C₁S₁ category.

2.3.3.3. The Kabini

The Kabini is an important tributary of the Cauvery. It is a perennial river, 150 to 200 M wide and has a course of about 240 Kms. It rises in the Western Ghats in North Wynad in Kerala State as two streams i.e., the Mannantoddypuzha and Panamarampuzha. About 16 Kms. below their confluence, the Kabini forms border between Kerala and Karnataka for about 12 Kms. before entering Karnataka State. It joins the Cauvery at Tirumakudalu Narasipur (T.Narasipur) and this confluence point is being considered as a spot of great sanctity. The confluence point is also called as “Triveni Sangama”. There are two water quality stations in this river system namely **Muthankera and T.Narasipur.**

The water of this river is slightly alkaline in nature with the mean pH value 7.2 at site Muthankera and 7.4 at site T.Narasipur. There is a huge difference in ionic concentrations of these two stations even though both are on the same river. The minimum and maximum Electrical Conductivity at Muthankera is 47 and 116 µmhos/cm only; whereas, at T.Narasipur it is 96 and 398 µmhos/cm. The reason for the huge difference in ionic concentrations may be due to the Kabini Reservoir in between these two sites. The major cation is Calcium followed by Sodium, Magnesium and Potassium; their maximum values are 32.0 mg/L, 26.0 mg/L, 19.6 mg/L and 3.2 mg/L all at T.Narasipur respectively and their minimum values are 1.0 mg/L at (T.Narasipur), 3.4 mg/L at (Muthankera), 0.5 mg/L at (T.Narasipur) and 0.8 mg/L at (Muthankera) respectively. Bicarbonate is the predominant anion followed by Chloride, Silicate and Sulphate; their maximum values are 181.0 mg/L, 37.3 mg/L, 26.3 mg/L and 21.6 mg/L respectively all at T.Narasipur. Their minimum values are 20.0 mg/L at (Muthankera), 5.8 mg/L at (Muthankera), 2.1 mg/L at (T.Narasipur) and 0.6 mg/L at (T.Narasipur) respectively. Small quantities of Iron, Boron, Fluoride, Nitrate and Phosphate are also found in water samples of this river. The water is classified as C₁S₁ (Muthankera) and C₂S₁ (T.Narasipur) category.

2.3.3.4. The Suvarnavathi

The Suvarnavathi is a tributary of the Cauvery. It originates from Nasrur Ghat range. The catchment area of Suvarnavathi river is 1787 Sq.Km and the length is 88 Km.

The only water quality station in this river is at **Bendrahalli** and water is alkaline in nature and pH ranging from 7.5 to 7.7. The Electrical Conductivity varied from 303 to 716 $\mu\text{mhos/cm}$. Predominant cation is Sodium followed by Calcium, Magnesium and Potassium; their maximum values are 65.0 mg/L, 56.0 mg/L, 30.0 mg/L and 5.6 mg/L and their minimum values are 26 mg/L, 21.0 mg/L, 11.9 mg/L and 3.6 mg/L respectively. Bicarbonate is the predominant anion followed by Chloride, Silicate and Sulphate; their maximum values are 293.0 mg/L, 83.8 mg/L, 32.5 mg/L and 28.1 mg/L respectively. Their minimum values are 133 mg/L, 32.7 mg/L, 10.5 mg/L and 5.1 mg/L. Small quantities of Iron, Boron, Fluoride, Nitrate and Phosphate are also found in water samples of this river. The river water is classified as C_2S_1 category.

2.3.3.5. The Shimsha

The Shimsha river is a tributary of the Cauvery. It originates at an altitude of 914 m in the Devarayanadurga hill. After originating in the Tumkur district, the river takes a southernly course and enters the Mandya district. The catchment area of Shimsha river is 8469 Sq.Km and the length is 221 Km.

The only water quality station in this river is at **T.K.Halli** and water is alkaline in nature with pH values ranging from 7.8 to 8.0. The Electrical conductivity is varied from 487 to 659 $\mu\text{mhos/cm}$. Predominant cation is Sodium followed by Calcium, Magnesium and Potassium; their maximum values are 55 mg/L, 45 mg/L, 31.2 mg/L and 5.6 mg/L and their minimum values are 33.0 mg/L, 36 mg/L, 20.8 mg/L and 3.0 mg/L. Bicarbonate is the predominant anion followed by Chloride, Sulphate and Silicate; their maximum values are 277.0 mg/L, 76.3 mg/L, 40.7 mg/L and 27.4 mg/L respectively. Their minimum values are 192 mg/L, 48.3 mg/L, 19.7 mg/L and 9.2 mg/L. Small quantities of Iron, Boron, Fluoride, Nitrate and Phosphate are also found in water samples of this river. The river water is classified as C_2S_1 category.

2.3.3.6. The Arkavathi

The Arkavathi river is a tributary of the Cauvery. It originates at Nandihills of Chikkaballapur district. The catchment area of Arkavathi river is 4351 Sq.Km and the length is 161Km.

The only water quality station in this river is at **T.Bekuppe**. The water at T.Bekuppe is polluted because the maximum water quality parameters are beyond the

desirable limit. The water is alkaline in nature and the pH is varying from 7.4 to 7.9. The Electrical Conductivity varied from 381 to 1614 $\mu\text{mhos/cm}$. Predominant cation is Sodium followed by Calcium, Magnesium and Potassium; their maximum values are 184.2 mg/L, 86.0 mg/L, 62 mg/L and 21.5 mg/L; their minimum values are 16.0 mg/L, 23.0 mg/L, 16.8 mg/L and 1.6 mg/L respectively. Bicarbonate is the predominant anion followed by Chloride, Sulphate and Nitrate; their maximum values are 581.0 mg/L, 257.0 mg/L, 48.0 and 13.2 mg/L; their minimum values are 148.0 mg/L, 37.3 mg/L, 16.6 and 1.35 mg/L respectively. Regarding biological parameters only DO, BOD and COD are analysed. The BOD is high almost throughout the year. The Nitrate and Fluoride concentration is also high almost throughout the year. Boron, Iron and Phosphate are also found in water samples of this river. Considerable quantities of Trace and toxic elements viz., Arsenic, Chromium, Copper, Lead, Nickel and Zinc are also found in the water sample. Regarding bacteriological parameters only Total Coliform and Fecal Coliform are analysed. The concentration of Total Coliform and Fecal Coliform are also very high. The water is classified under C₃S₁ category.

2.3.3.7. The Chinnar

The Chinnar river is a tributary of the Cauvery.

The only water quality station in this river is at **Hogenakkal** with the flow only one month shows water is alkaline in nature with pH value 8.3. The Electrical conductivity is 751 $\mu\text{mhos/cm}$. Predominant cation is Sodium followed by Calcium, Magnesium and Potassium; their values are 66.0 mg/L, 53.0 mg/L, 32.1 mg/L and 2.2 mg/L respectively. Bicarbonate is the predominant anion followed by Chloride, and Sulphate; their values are 189 mg/L, 83.4 mg/L and 62.4 mg/L respectively. Boron, Fluoride, Nitrate and Phosphate are also found in water samples of this river. Small quantities of Trace and toxic elements viz., Arsenic, Chromium, Copper, Lead, Nickel and Zinc are also found within the limit in the water sample. The water is classified under C₃S₁ category.

2.3.3.8. The Palar

The Palar river is a tributary of the Cauvery. It originates in Talagavara village in Kolar district. The catchment area of Palar river is 2813 Sq.Km and the length is 348 Km.

The only water quality station in this river is at **Kudlur** and water is alkaline in nature. The pH ranges from 8.3 to 8.4. The Electrical Conductivity is varied from 144 to 788 $\mu\text{mhos/cm}$. Predominant cation is Sodium followed by Calcium, Magnesium and Potassium; their maximum values are 78.0 mg/L, 41.0 mg/L, 41.0 mg/L and 6.2 mg/L; their minimum values are 11.8 mg/L, 12.0 mg/L, 3.7 mg/L and 3.8 mg/L respectively. Bicarbonate is the predominant anion followed by Sulphate, Chloride and Nitrate; their maximum values are 274.0 mg/L, 46.1 mg/L, 43.1 and 4.5 mg/L; their minimum values are 18.0 mg/L, 10.5 mg/L, 14.8 mg/L and 0.63 respectively. Small quantities of Iron, Boron, Fluoride, Phosphate and Silicate are also found in water sample of this river. Small quantities of Trace and toxic elements viz., Arsenic, Chromium, Copper, Lead, Nickel and Zinc are also found within the limit in the water sample. The water is classified under C₃S₁ category.

2.3.3.9. The Thoppaiyar

The Thoppaiyar river is a tributary of the Cauvery.

The only water quality station in this river is at **Thoppur** and water is alkaline in nature. The pH ranges from 7.1 to 7.8. The Electrical Conductivity is varied from 156 to 528 $\mu\text{mhos/cm}$. Predominant cation is Sodium followed by Magnesium, Calcium and Potassium; their maximum values are 40.2 mg/L, 30.9 mg/L, 28.0 mg/L and 4.3 mg/L; their minimum values are 12.5 mg/L, 6.6 mg/L, 11.0 mg/L and 3.9 mg/L respectively. Bicarbonate is the predominant anion followed by Sulphate, Chloride and Nitrate; their maximum values are 244.0 mg/L, 37.4 mg/L, 23.1 and 2.14 mg/L; their minimum values are 46.0 mg/L, 17 mg/L, 15.0 mg/L and 1.30 respectively. Small quantities of Iron, Boron, Fluoride, Phosphate and Silicate are also found in water sample of this river. Small quantities of Trace and toxic elements viz., Arsenic, Chromium, Copper, Lead, Nickel and Zinc are also found within the limit in the water sample. The water is classified under C₂S₁ category.

2.3.3.10. The Chittar

The Chittar river is a tributary of the Cauvery.

The only water quality station in this river is at **Sevanur** with the flow only one month shows water is alkaline in nature with pH value 7.5. The Electrical conductivity is 327 $\mu\text{mhos/cm}$. Predominant cation is Calcium followed by Sodium, Potassium and

Magnesium; their values are 37.0 mg/L, 24.5 mg/L, 9.2 mg/L and 3.7 mg/L respectively. Bicarbonate is the predominant anion followed by Chloride, Sulphate and Silicate; their values are 109.0 mg/L, 33.3 mg/L, 25.0 mg/L and 11.3 mg/L respectively. Small quantities of Ammonia, Boron, Fluoride and Phosphate are also found in water sample of this river. The water is classified under C₂S₁ category.

2.3.3.11. The Sarabenga

The Sarabenga river is a tributary of the Cauvery.

The only water quality station in this river is at **Thevur**. Water samples from this river are not collected during the year 2017 – 18 due to no flow and dry bed condition; hence Water Quality analysis is not done.

2.3.3.12. The Bhavani

The Bhavani is a 217-kilometer long perennial river and it originates from Nilgiri hills of the Western Ghats fed mostly by the southwest monsoon and supplemented by the northeast monsoon. Its watershed drains an area of 0.62 million hectares spread over Tamil Nadu (87%), Kerala (9%) and Karnataka (4%). The main river courses majorly through Coimbatore district and Erode district in Tamil Nadu. There are four stations in this basin i.e. the site at **Nellithurai** and **Savandapur** in the main river, rest on the tributaries viz., Moyar at **Thengumarahada**, Gandhayar at **Gandhavayal**.

Water samples from the site Nellithurai is not collected during the year 2017 – 18 due to no flow condition; hence Water Quality analysis is not done at the site Nellithurai.

The water of this river is alkaline in nature and the pH varies in between 6.9 (Thengumarahada) to 8.2 (Gandhavayal). The Electrical Conductivity varied from 82 to 442 μ mhos/cm both at Gandhavayal. The major cation is Calcium followed by Magnesium, Sodium and Potassium; their maximum values are 40.0 mg/L (Savandapur), 32.7 mg/L (Gandhavayal), 28.6 mg/L (Savandapur) and 5.0 mg/L (Thengumarahada) and their minimum values are 8.0 mg/L (Gandhavayal), 1.9 mg/L (Gandhavayal), 3.8 mg/L (Thengumarahada) and 0.9 mg/L (Thengumarahada) respectively. Bicarbonate is the predominant anion followed by Chloride and Sulphate; their maximum values are 216.0 mg/L (Gandhavayal), 58.7 mg/L (Thengumarahada) and 27.5 mg/L (Savandapur) and their minimum values are 19 mg/L (Thengumarahada), 7.8 mg/L (Gandhavayal) and 2.9

mg/L (Thengumarahada) respectively. Small quantities of Ammonia, Boron, Fluoride, Iron, Nitrate, Phosphate and Silicate are also found within the limit in water samples. Regarding biological parameters only DO, BOD and COD are analysed. Small quantities of Trace and toxic elements viz., Arsenic, Chromium, Copper, Lead, Nickel and Zinc are also found within the limit in the water sample. The water is classified as good and it comes under C₂S₁ (Thengumarahada, Gandhavayal & Savandapur) category.

2.3.3.13. The Amaravathi

The Amaravathi river is a tributary of the Cauvery. It originates at Anamalai hills in Tamil Nadu. The catchment area of Amaravathi river is 9080 Sq.Km and the length is 282 Km.

The only water quality station in this river is at **Nallamaranpatty** shows the water is alkaline in nature with the pH range of 7.6 to 8.2. The Electrical Conductivity varied from 80 to 419 μ mhos/cm. Predominant cation is Calcium followed by Sodium, Magnesium and Potassium; their maximum values are 38.0 mg/L, 33.0 mg/L, 15.6 mg/L and 5.6 mg/L and their minimum values are 9.0 mg/L, 4.8 mg/L, 1.9 mg/L and 1.8 mg/L respectively. Bicarbonate is the predominant anion followed by Chloride and Sulphate; their maximum values are 159.0 mg/L, 57.9 mg/L and 29.6 mg/L and their minimum values are 32.0 mg/L, 7.5 mg/L and 3.1 mg/L respectively. Small quantities of Ammonia, Boron, Fluoride, Iron, Nitrate, Phosphate and Silicate are also found within the limit in water samples. Regarding biological parameters only DO, BOD and COD are analysed. Small quantities of Trace and toxic elements viz., Arsenic, Chromium, Copper, Lead, Nickel and Zinc are also found within the limit in the water sample. The water is classified as C₂S₁ category.

2.3.4. The Noyyal

The Noyyal River is the **most polluted tributary** of the Cauvery River. It originates at Vellingiri hills in Western Ghats of Tamilnadu. The catchment area of Noyyal river is 3500 Sq.Km and the length is 180 Km.

The only one water quality station in this river is at **Elunuthimangalam**. The water at Elunuthimangalam is polluted because the maximum water quality parameters are beyond the desirable limit. Generally the water of this river is highly alkaline in nature. The pH varied from 7.1 to 8.9 and the Electrical Conductivity varied from 1156 to 4580 μ mhos/cm. Predominant cation is Sodium followed by Magnesium, Calcium and

Potassium; their maximum values are 706.0 mg/L, 156.3 mg/L, 143.0 mg/L and 80.0 mg/L and their minimum values are 162.0 mg/L, 31.4 mg/L, 32.0 mg/L and 15.1 mg/L respectively. Chloride is the predominant anion followed by Bicarbonate, Sulphate and Nitrate; their maximum values are 1037.1 mg/L, 696.0 mg/L, 426.4 mg/L and 20.20 mg/L; and their minimum values are 222.4 mg/L, 126.0 mg/L, 77.9 and 2.19 mg/L respectively. Regarding biological parameters only DO, BOD and COD are analysed. The BOD is high almost throughout the year. The Nitrate and Fluoride concentration is also high almost throughout the year. Considerable quantities of Ammonia, Boron, Iron, Phosphate and Silicate are also found in water samples of this river. Considerable quantities of Trace and toxic elements viz., Arsenic, Cadmium, Chromium, Copper, Lead, Nickel and Zinc are also found in the water sample.

The reason for the un-usual concentrations of water quality parameters are may be due to the dumping of industrial, agricultural and domestic effluents and wastes directly into the river. The water is classified as C₄S₂ category which comes under high salinity hazard and medium sodium hazard as per the Wilcox Diagram.

2.3.5. The Distributaries of Cauvery Delta Region

There are 7 distributaries from the river Cauvery in delta region that contributes the flow to the Karaikal area which are Nandalar, Nattar, Vanjiyar, Noolar, Arasalar, Thirumalairajanar and Puravadaianar. All the distributaries in the region are non-perennial and flow is mainly due to the release of Cauvery water. For most of the months in the year, the flows available are the releases/regulated flows from upper regulators maintained by the Government of Tamil Nadu. There are 7 water quality stations on the 7 distributaries of Cauvery. They are **Nallathur, Annavasal, Peralam, Menangudi, Porakudi, Thengudi** and **Gopurajapuram**.

The rivers at the site Annavasal is completely dry throughout the year; hence water quality analysis at this site was not done. The water of this delta region is alkaline in nature and the pH varies in between 6.9 (Gopurajapuram) to 8.8 (Thengudi). The Electrical Conductivity varied from 147 (Gopurajapuram) to 726 (Thengudi) $\mu\text{mhos/cm}$. The major cation is Sodium followed by Calcium, Magnesium and Potassium; their maximum values are 96.3 mg/L, 34.0 mg/L, 21.9 mg/L and 5.6 mg/L all at Thengudi, and their minimum values are 17.0 mg/L (Gopurajapuram), 5.0 mg/L (Gopurajapuram), 3.9 mg/L (Gopurajapuram) and 2.4 mg/L (Peralam) respectively. Bicarbonate is the predominant anion followed by Chloride and Sulphate; their maximum values are 195.0

mg/L (Thengudi), 127.4 mg/L (Thengudi) and 37.8 mg/L (Nallathur) and their minimum values are 26.0 mg/L, 23.3 mg/L and 5.4 mg/L all at Gopurajapuram respectively. Small quantities of Ammonia, Carbonate, Fluoride, Iron, Nitrate, Phosphate and Silicate are also found within the limit in water samples. Regarding biological parameters only DO and BOD are analysed. Small quantities of Trace and toxic elements viz., Arsenic, Chromium, Copper, Lead, Nickel and Zinc are also found within the limit in the water sample. Fluoride, Nitrate and Phosphate are also found in the water samples. The water is classified as C₁S₁ (Gopurajapuram) and C₂S₁ (Menangudi, Porakudi, Peralam, Nallathur and Thengudi) category.

HISTORY SHEET

		Water Year	: 2017-2018
Site	: GOPURAJAPURAM	Code	: CCA32D2
State	: Tamil Nadu	District	Nagapattinam
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: -	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Puravidaiyanar
Division	: Hydrology Division, Chennai	Sub-Division	: Cauvery Delta SD, Karaikkal
Drainage Area	: Sq. Km.	Bank	: Left
Latitude	: 10°51'05"	Longitude	: 79°48'00"
Zero of Gauge (m)	: 13.000 (m.s.l) Arb -2.000 (m.s.l)	01/02/1998 01/06/1999	- 31/05/1999
	Opening Date	Closing Date	
Gauge	: 01/02/1998		
Discharge	: 01/02/1999		
Sediment	:		
Water Quality	: 01/10/2005		

Water Quality Datasheet for the period : 2017-2018

Station Name : Gopurajapuram (CCA32D2)

Division : Hydrology Division, Chennai

Local River : Puravidaianar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	River Dry	River Dry	River Dry
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Gopurajapuram (CCA32D2)

Division : Hydrology Division, Chennai

Local River : Puravidaianar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/09/2017	31/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	River Dry	3.404	6.253
2	Colour_Cod (-)		Brown	Light Brown
3	EC_GEN (μmho/cm)		147	200
4	Odour_Code (-)		odour free	odour free
5	pH_FLD (pH units)		7.0	7.0
6	pH_GEN (pH units)		6.9	7.1
7	TDS (mg/L)		78	106
8	Temp (deg C)		23.0	25.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	0.0
2	ALK-TOT (mgCaCO3/L)		21	51
3	Ca (mg/L)		5	11
4	Cl (mg/L)		23.3	25.5
5	CO3 (mg/L)		0.0	0.0
6	F (mg/L)		0.46	0.50
7	Fe (mg/L)			
8	HCO3 (mg/L)		26	62
9	K (mg/L)		3.3	3.5
10	Mg (mg/L)		3.9	7.8
11	Na (mg/L)		17.5	18.0
12	NH3-N (mg N/L)		0.04	0.02
13	NO2+NO3 (mg N/L)		0.24	0.15
14	NO2-N (mgN/L)		0.01	0.01
15	NO3-N (mgN/L)		0.24	0.14
16	o-PO4-P (mg P/L)		0.024	0.145
17	SO4 (mg/L)		11.8	11.9
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		1.5	1.7
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		12	28
2	HAR_Total (mgCaCO3/L)		28	60
3	Na% (%)		54	38
4	RSC (-)		0.0	0.0
5	SAR (-)		1.4	1.0
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Gopurajapuram (CCA32D2)

Division : Hydrology Division, Chennai

Local River : Puravidaianar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	11.98	River Dry	River Dry
2	Colour_Cod (-)	Light Brown		
3	EC_GEN (μmho/cm)	166		
4	Odour_Code (-)	odour free		
5	pH_FLD (pH units)	7.0		
6	pH_GEN (pH units)	8.5		
7	TDS (mg/L)	88		
8	Temp (deg C)	26.0		
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	8.4		
2	ALK-TOT (mgCaCO3/L)	42		
3	Ca (mg/L)	8		
4	Cl (mg/L)	23.5		
5	CO3 (mg/L)	10.1		
6	F (mg/L)	0.19		
7	Fe (mg/L)	0.1		
8	HCO3 (mg/L)	31		
9	K (mg/L)	2.7		
10	Mg (mg/L)	5.8		
11	Na (mg/L)	17.0		
12	NH3-N (mg N/L)	0.02		
13	NO2+NO3 (mg N/L)	0.06		
14	NO2-N (mgN/L)	0.01		
15	NO3-N (mgN/L)	0.06		
16	o-PO4-P (mg P/L)	0.013		
17	SO4 (mg/L)	5.4		
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	2.7		
	TRACE & TOXIC			
1	As (μg/L)	3.15		
2	Cd (μg/L)	0.02		
3	Cr (μg/L)	5.70		
4	Cu (μg/L)	4.39		
5	Ni (μg/L)	23.06		
6	Pb (μg/L)	1.11		
7	Zn (μg/L)	31.80		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	20		
2	HAR_Total (mgCaCO3/L)	44		
3	Na% (%)	44		
4	RSC (-)	0.0		
5	SAR (-)	1.1		
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Gopurajapuram (CCA32D2)

Division : Hydrology Division, Chennai

Local River : Puravidaianar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	River Dry	River Dry	River Dry
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : Gopurajapuram (CCA32D2)

Division : Hydrology Division, Chennai

Local River : Puravidaianar

Sub-Division : Cauvery Delta SD, Karaikkal

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	22.83	0.000	0.783
2	EC_GEN (μmho/cm)	3	200	147	171
3	pH_FLD (pH units)	3	7.0	7.0	7
4	pH_GEN (pH units)	3	8.5	6.9	7.5
5	TDS (mg/L)	3	106	78	91
6	Temp (deg C)	3	26.0	23.0	24.7
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	3	8.4	0.0	2.8
2	ALK-TOT (mgCaCO3/L)	3	51	21	38
3	Ca (mg/L)	3	11	5	8
4	Cl (mg/L)	3	25.5	23.3	24.1
5	CO3 (mg/L)	3	10.1	0.0	3.4
6	F (mg/L)	3	0.50	0.19	0.38
7	Fe (mg/L)	1	0.1	0.1	0.1
8	HCO3 (mg/L)	3	62	26	39
9	K (mg/L)	3	3.5	2.7	3.2
10	Mg (mg/L)	3	7.8	3.9	5.8
11	Na (mg/L)	3	18.0	17.0	17.5
12	NH3-N (mg N/L)	3	0.04	0.02	0.03
13	NO2+NO3 (mg N/L)	3	0.24	0.06	0.15
14	NO2-N (mgN/L)	3	0.01	0.01	0.01
15	NO3-N (mgN/L)	3	0.24	0.06	0.14
16	o-PO4-P (mg P/L)	3	0.145	0.013	0.061
17	SO4 (mg/L)	3	11.9	5.4	9.7
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	3	2.7	1.5	2
	TRACE & TOXIC				
1	As (μg/L)	1	3.15	3.15	3.15
2	Cd (μg/L)	1	0.02	0.02	0.02
3	Cr (μg/L)	1	5.70	5.70	5.7
4	Cu (μg/L)	1	4.39	4.39	4.39
5	Ni (μg/L)	1	23.06	23.06	23.06
6	Pb (μg/L)	1	1.11	1.11	1.11
7	Zn (μg/L)	1	31.80	31.80	31.8
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	3	28	12	20
2	HAR_Total (mgCaCO3/L)	3	60	28	44
3	Na% (%)	3	54	38	45
4	RSC (-)	3	0.0	0.0	0
5	SAR (-)	3	1.4	1.0	1.2
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Gopurajapuram (CCA32D2)

Division : Hydrology Division, Chennai

Local River : Puravidaiyanar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	3.602	0.000	0.000	0.000	2.486
2	EC_GEN (µmho/cm)			1120		442
3	pH_FLD (pH units)			7.0		7.3
4	pH_GEN (pH units)			7.9		8.3
5	TDS (mg/L)					
6	Temp (deg C)			26.5		27.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)			0.0		12.0
2	ALK-TOT (mgCaCO3/L)			288		158
3	Ca (mg/L)			41		20
4	Cl (mg/L)			171.5		46.3
5	CO3 (mg/L)			0.0		14.4
6	F (mg/L)			0.36		0.43
7	Fe (mg/L)					
8	HCO3 (mg/L)			352		163
9	K (mg/L)			4.0		4.7
10	Mg (mg/L)			24.3		29.2
11	Na (mg/L)			154.6		35.3
12	NH3-N (mg N/L)					
13	NO2+NO3 (mg N/L)					
14	NO2-N (mgN/L)					
15	NO3-N (mgN/L)					0.91
16	o-PO4-P (mg P/L)					
17	SO4 (mg/L)			49.2		11.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					1.7
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)			102		50
2	HAR_Total (mgCaCO3/L)			203		172
3	Na% (%)			62		30
4	RSC (-)			1.7		0.0
5	SAR (-)			4.7		1.2
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Gopurajapuram (CCA32D2)

Division : Hydrology Division, Chennai

Local River : Puravidaiyanar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	0.236	0.752	0.349	0.090	0.000
2	EC_GEN (µmho/cm)	335	280	315	480	
3	pH_FLD (pH units)	7.0	7.0	7.0	7.0	
4	pH_GEN (pH units)	7.7	7.5	7.9	7.3	
5	TDS (mg/L)	179	106	170	265	
6	Temp (deg C)	30.0	25.0	31.0	30.0	
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	
2	ALK-TOT (mgCaCO3/L)	122	78	110	141	
3	Ca (mg/L)	28	23	24	19	
4	Cl (mg/L)	51.9	25.5	42.5	74.3	
5	CO3 (mg/L)	0.0	0.0	0.0	0.0	
6	F (mg/L)	0.86	0.29	0.26	0.45	
7	Fe (mg/L)					
8	HCO3 (mg/L)	149	95	134	172	
9	K (mg/L)	5.8	2.8	3.0	4.0	
10	Mg (mg/L)	12.4	6.1	12.3	27.6	
11	Na (mg/L)	37.3	13.8	24.6	45.2	
12	NH3-N (mg N/L)				0.06	
13	NO2+NO3 (mg N/L)				0.49	
14	NO2-N (mgN/L)				0.00	
15	NO3-N (mgN/L)	0.12	0.84	0.76	0.49	
16	o-PO4-P (mg P/L)				0.017	
17	SO4 (mg/L)	13.3	8.2	5.1	18.7	
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.7	1.6	1.9	0.9	
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	71	58	59	47	
2	HAR_Total (mgCaCO3/L)	122	84	110	162	
3	Na% (%)	39	26	32	37	
4	RSC (-)	0.0	0.0	0.0	0.0	
5	SAR (-)	1.5	0.7	1.0	1.6	
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Gopurajapuram (CCA32D2)

Division : Hydrology Division, Chennai

Local River : Puravidaiyanar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	0.681	5.357	11.86	6.779	10.11
2	EC_GEN (μmho/cm)	147		178	462	286
3	pH_FLD (pH units)	7.0		7.0	7.0	7.0
4	pH_GEN (pH units)	6.9		6.8	7.7	7.6
5	TDS (mg/L)	78				
6	Temp (deg C)	23.0		28.5	25.7	28.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0		0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	21		79	215	110
3	Ca (mg/L)	5		14	27	17
4	Cl (mg/L)	23.3		42.0	71.4	41.2
5	CO3 (mg/L)	0.0		0.0	0.0	0.0
6	F (mg/L)	0.46			0.37	0.29
7	Fe (mg/L)					
8	HCO3 (mg/L)	26		97	262	135
9	K (mg/L)	3.3			5.9	4.0
10	Mg (mg/L)	3.9		10.2	10.0	10.7
11	Na (mg/L)	17.5			82.6	31.3
12	NH3-N (mg N/L)	0.04				
13	NO2+NO3 (mg N/L)	0.24				
14	NO2-N (mgN/L)	0.01				
15	NO3-N (mgN/L)	0.24				0.31
16	o-PO4-P (mg P/L)	0.024				
17	SO4 (mg/L)	11.8			10.4	6.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.5			1.8	1.6
	TRACE & TOXIC					
1	As (μg/L)					
2	Cd (μg/L)					
3	Cr (μg/L)					
4	Cu (μg/L)					
5	Ni (μg/L)					
6	Pb (μg/L)					
7	Zn (μg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	12		34	68	43
2	HAR_Total (mgCaCO3/L)	28		77	110	87
3	Na% (%)	54			61	42
4	RSC (-)	0.0		0.1	2.1	0.5
5	SAR (-)	1.4			3.5	1.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Gopurajapuram (CCA32D2)

Division : Hydrology Division, Chennai

Local River : Puravidaiyanar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	8.933	8.645	0.000	1.046	8.318
2	EC_GEN (µmho/cm)	407	134		332	359
3	pH_FLD (pH units)	7.0	6.0		7.0	7.0
4	pH_GEN (pH units)	7.5	7.0		7.5	7.6
5	TDS (mg/L)		71		185	195
6	Temp (deg C)	25.5	23.0		23.0	28.7
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0		0.0	0.0
2	ALK-TOT (mgCaCO3/L)	113	45		115	104
3	Ca (mg/L)	13	9		24	20
4	Cl (mg/L)	60.7	20.3		47.3	52.5
5	CO3 (mg/L)	0.0	0.0		0.0	0.0
6	F (mg/L)	0.27	0.27		0.28	0.34
7	Fe (mg/L)					
8	HCO3 (mg/L)	138	55		140	127
9	K (mg/L)	3.9	2.3		3.1	3.0
10	Mg (mg/L)	17.8	4.8		12.3	11.9
11	Na (mg/L)	42.4	13.1		34.6	37.2
12	NH3-N (mg N/L)					0.05
13	NO2+NO3 (mg N/L)					0.45
14	NO2-N (mgN/L)					0.00
15	NO3-N (mgN/L)	0.45	0.26		2.82	0.45
16	o-PO4-P (mg P/L)					0.015
17	SO4 (mg/L)	5.8	5.3		8.5	13.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.2	2.8		1.6	1.7
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	33	24		59	50
2	HAR_Total (mgCaCO3/L)	108	43		110	100
3	Na% (%)	45	38		40	44
4	RSC (-)	0.1	0.0		0.1	0.1
5	SAR (-)	1.8	0.9		1.4	1.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Gopurajapuram (CCA32D2)

Division : Hydrology Division, Chennai

Local River : Puravidaiyanar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	0.000	4.558	0.000	0.000	0.000
2	EC_GEN (µmho/cm)		183			
3	pH_FLD (pH units)		7.0			
4	pH_GEN (pH units)		7.8			
5	TDS (mg/L)		97			
6	Temp (deg C)		25.5			
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		4.2			
2	ALK-TOT (mgCaCO3/L)		46			
3	Ca (mg/L)		10			
4	Cl (mg/L)		24.5			
5	CO3 (mg/L)		5.1			
6	F (mg/L)		0.35			
7	Fe (mg/L)		0.1			
8	HCO3 (mg/L)		46			
9	K (mg/L)		3.1			
10	Mg (mg/L)		6.8			
11	Na (mg/L)		17.5			
12	NH3-N (mg N/L)		0.02			
13	NO2+NO3 (mg N/L)		0.11			
14	NO2-N (mgN/L)		0.01			
15	NO3-N (mgN/L)		0.10			
16	o-PO4-P (mg P/L)		0.079			
17	SO4 (mg/L)		8.6			
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		2.2			
	TRACE & TOXIC					
1	As (µg/L)		3.15			
2	Cd (µg/L)		0.02			
3	Cr (µg/L)		5.70			
4	Cu (µg/L)		4.39			
5	Ni (µg/L)		23.06			
6	Pb (µg/L)		1.11			
7	Zn (µg/L)		31.80			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		24			
2	HAR_Total (mgCaCO3/L)		52			
3	Na% (%)		41			
4	RSC (-)		0.0			
5	SAR (-)		1.1			
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Gopurajapuram (CCA32D2)

Division : Hydrology Division, Chennai

Local River : Puravidaianar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	0.000	0.000	0.000	0.000
2	EC_GEN (µmho/cm)				
3	pH_FLD (pH units)				
4	pH_GEN (pH units)				
5	TDS (mg/L)				
6	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	Ca (mg/L)				
4	Cl (mg/L)				
5	CO3 (mg/L)				
6	F (mg/L)				
7	Fe (mg/L)				
8	HCO3 (mg/L)				
9	K (mg/L)				
10	Mg (mg/L)				
11	Na (mg/L)				
12	NH3-N (mg N/L)				
13	NO2+NO3 (mg N/L)				
14	NO2-N (mgN/L)				
15	NO3-N (mgN/L)				
16	o-PO4-P (mg P/L)				
17	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Gopurajapuram (CCA32D2)

Division : Hydrology Division, Chennai

Local River : Puravidaianar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	0.000	0.000	0.000	0.000
2	EC_GEN (µmho/cm)				
3	pH_FLD (pH units)				
4	pH_GEN (pH units)				
5	TDS (mg/L)				
6	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	Ca (mg/L)				
4	Cl (mg/L)				
5	CO3 (mg/L)				
6	F (mg/L)				
7	Fe (mg/L)				
8	HCO3 (mg/L)				
9	K (mg/L)				
10	Mg (mg/L)				
11	Na (mg/L)				
12	NH3-N (mg N/L)				
13	NO2+NO3 (mg N/L)				
14	NO2-N (mgN/L)				
15	NO3-N (mgN/L)				
16	o-PO4-P (mg P/L)				
17	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

HISTORY SHEET

Water Year : 2017-2018

Site : ANNAVASAL

Code : CCA21G5

State : Pondicherry

District : Karaikal

Basin : Cauvery

Independent River : Cauvery

Tributary : -

Sub Tributary : -

Sub-Sub Tributary : -

Local River : Nattar

Division : Hydrology Division,
Chennai

Sub-Division : Cauvery Delta SD,
Karaikal

Drainage Area : Sq. Km.

Bank : Left

Latitude : 10°58'30"

Longitude : 79°45'14"

Zero of Gauge (m) : 4.250 (m.s.l)
4.000 (m.s.l)

21/07/1998 - 30/11/1998
01/12/1998

Opening Date

Closing Date

Gauge : 21/07/1998

Discharge : 01/02/1999

Sediment :

Water Quality : 01/09/2005

Water Quality Datasheet for the period : 2017-2018

Station Name : Annavasal (CCA21G5)

Division : Hydrology Division, Chennai

Local River : Nattar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikal

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	B
	PHYSICAL			
1	Q (cumec)	River Dry	River Dry	River Dry
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Annavasal (CCA21G5)

Division : Hydrology Division, Chennai

Local River : Nattar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikal

S.No	Parameters	01/09/2017	01/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	River Dry	River Dry	Low depth
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Annavasal (CCA21G5)

Division : Hydrology Division, Chennai

Local River : Nattar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikal

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	Low depth	Low depth	River Dry
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Annavasal (CCA21G5)

Division : Hydrology Division, Chennai

Local River : Nattar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikal

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	River Dry	River Dry	River Dry
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Annavasal (CCA21G5)

Division : Hydrology Division, Chennai

Local River : Nattar

River Water

Sub-Division : Cauvery Delta SD, Karaikal

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	1.413	1.157	0.247	0.208	0.694
2	EC_GEN (µmho/cm)	249	392	324	481	451
3	pH_FLD (pH units)		7.0	7.0	7.0	7.5
4	pH_GEN (pH units)	7.5	7.6	7.4	7.9	8.2
5	TDS (mg/L)					
6	Temp (deg C)	24.8	28.0	26.8	29.9	27.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	17.9
2	ALK-TOT (mgCaCO3/L)	94	145	151	179	144
3	Ca (mg/L)	26	27	24	28	27
4	Cl (mg/L)	24.2	56.7	39.1	56.9	48.0
5	CO3 (mg/L)	0.0	0.0	0.0	0.0	21.6
6	F (mg/L)			0.28	0.28	0.41
7	Fe (mg/L)					
8	HCO3 (mg/L)	115	177	184	219	132
9	K (mg/L)			4.5	5.8	6.6
10	Mg (mg/L)	11.7	17.8	13.1	21.4	19.4
11	Na (mg/L)	20.4		35.4	45.8	34.7
12	NH3-N (mg N/L)					
13	NO2+NO3 (mg N/L)					
14	NO2-N (mgN/L)					
15	NO3-N (mgN/L)				0.68	3.15
16	o-PO4-P (mg P/L)					
17	SO4 (mg/L)	9.2	15.0	10.5	21.2	16.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)				1.3	2.4
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	64	69	61	69	68
2	HAR_Total (mgCaCO3/L)	113	143	116	159	149
3	Na% (%)			39	38	33
4	RSC (-)	0.0	0.2	0.7	0.4	0.1
5	SAR (-)	0.8		1.4	1.6	1.2
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Annavasal (CCA21G5)

Division : Hydrology Division, Chennai

Local River : Nattar

River Water

Sub-Division : Cauvery Delta SD, Karaikal

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	0.092	0.317	0.569	0.526	River Dry
2	EC_GEN (µmho/cm)	439	198	256	426	
3	pH_FLD (pH units)	7.0	8.0	7.0	7.0	
4	pH_GEN (pH units)	7.3	7.8	7.5	8.0	
5	TDS (mg/L)	234	106	140	227	
6	Temp (deg C)	28.5	24.0	29.3	29.0	
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	
2	ALK-TOT (mgCaCO3/L)	131	73	88	132	
3	Ca (mg/L)	30	23	21	16	
4	Cl (mg/L)	63.9	25.5	35.9	57.8	
5	CO3 (mg/L)	0.0	0.0	0.0	0.0	
6	F (mg/L)	0.83	0.34	0.31	0.41	
7	Fe (mg/L)		0.0			
8	HCO3 (mg/L)	159	90	108	161	
9	K (mg/L)	3.8	3.5	4.4	3.7	
10	Mg (mg/L)	16.2	5.1	10.3	23.5	
11	Na (mg/L)	36.1	13.6	22.5	36.0	
12	NH3-N (mg N/L)				0.05	
13	NO2+NO3 (mg N/L)				0.35	
14	NO2-N (mgN/L)				0.00	
15	NO3-N (mgN/L)	0.11	1.56	0.96	0.35	
16	o-PO4-P (mg P/L)				0.019	
17	SO4 (mg/L)	18.5	8.9	13.6	20.0	
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.5	1.5	1.7	2.0	
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)		0.21			
3	Cr (µg/L)		0.85			
4	Cu (µg/L)		2.64			
5	Hg (µg/L)		0.09			
6	Ni (µg/L)		10.45			
7	Pb (µg/L)		6.65			
8	Zn (µg/L)		3.00			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	75	58	52	40	
2	HAR_Total (mgCaCO3/L)	142	80	95	138	
3	Na% (%)	35	26	33	36	
4	RSC (-)	0.0	0.0	0.0	0.0	
5	SAR (-)	1.3	0.7	1.0	1.3	
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Annavasal (CCA21G5)

Division : Hydrology Division, Chennai

Local River : Nattar

River Water

Sub-Division : Cauvery Delta SD, Karaikal

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	River Dry	0.720	2.443	0.722	2.883
2	EC_GEN (μmho/cm)		483	481	564	542
3	pH_FLD (pH units)			7.0	7.0	7.8
4	pH_GEN (pH units)		7.7	7.3	7.9	8.1
5	TDS (mg/L)					
6	Temp (deg C)		23.8	26.3	25.6	26.2
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)		140	171	260	195
3	Ca (mg/L)		32	30	28	28
4	Cl (mg/L)		56.0	74.4	78.1	67.8
5	CO3 (mg/L)		0.0	0.0	0.0	0.0
6	F (mg/L)				0.35	0.39
7	Fe (mg/L)					
8	HCO3 (mg/L)		171	208	317	238
9	K (mg/L)				9.3	6.2
10	Mg (mg/L)		15.7	19.4	18.0	22.4
11	Na (mg/L)		34.3		95.3	52.8
12	NH3-N (mg N/L)					
13	NO2+NO3 (mg N/L)					
14	NO2-N (mgN/L)					
15	NO3-N (mgN/L)					0.55
16	o-PO4-P (mg P/L)					
17	SO4 (mg/L)		18.5		20.5	21.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)				0.4	1.3
	TRACE & TOXIC					
1	As (μg/L)					
2	Cd (μg/L)					
3	Cr (μg/L)					
4	Cu (μg/L)					
5	Hg (μg/L)					
6	Ni (μg/L)					
7	Pb (μg/L)					
8	Zn (μg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		80	74	69	71
2	HAR_Total (mgCaCO3/L)		146	155	144	164
3	Na% (%)				57	40
4	RSC (-)		0.1	0.4	2.3	0.6
5	SAR (-)		1.3		3.5	1.8
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Annavasal (CCA21G5)

Division : Hydrology Division, Chennai

Local River : Nattar

River Water

Sub-Division : Cauvery Delta SD, Karaikal

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	1.859	0.847	River Dry	1.220	2.950
2	EC_GEN (µmho/cm)	478	368		513	312
3	pH_FLD (pH units)	7.5	7.0		7.3	7.0
4	pH_GEN (pH units)	8.0	7.6		7.8	8.0
5	TDS (mg/L)		196		275	167
6	Temp (deg C)	26.3	23.8		25.0	25.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	2.9	0.0		0.0	4.7
2	ALK-TOT (mgCaCO3/L)	131	110		133	93
3	Ca (mg/L)	26	23		29	19
4	Cl (mg/L)	63.6	43.4		76.0	41.7
5	CO3 (mg/L)	3.5	0.0		0.0	5.6
6	F (mg/L)	0.30	0.57		0.28	0.30
7	Fe (mg/L)	0.0			0.0	
8	HCO3 (mg/L)	153	134		163	102
9	K (mg/L)	6.7	3.6		5.4	3.8
10	Mg (mg/L)	15.6	11.4		15.4	10.8
11	Na (mg/L)	44.8	29.6		57.4	30.2
12	NH3-N (mg N/L)				0.06	0.05
13	NO2+NO3 (mg N/L)				2.99	0.22
14	NO2-N (mgN/L)				0.00	0.00
15	NO3-N (mgN/L)	0.52	0.25		2.00	0.22
16	o-PO4-P (mg P/L)				0.013	0.008
17	SO4 (mg/L)	12.2	12.0		21.5	11.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.9	1.7		1.6	1.3
	TRACE & TOXIC					
1	As (µg/L)	0.99				
2	Cd (µg/L)				0.25	
3	Cr (µg/L)	1.09			8.18	
4	Cu (µg/L)	9.38			3.53	
5	Hg (µg/L)					
6	Ni (µg/L)	6.14			0.15	
7	Pb (µg/L)	0.87			0.36	
8	Zn (µg/L)	6.10			4.00	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	64	57		73	47
2	HAR_Total (mgCaCO3/L)	129	105		137	92
3	Na% (%)	42	39		47	40
4	RSC (-)	0.1	0.1		0.0	0.0
5	SAR (-)	1.7	1.3		2.1	1.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Annavasal (CCA21G5)

Division : Hydrology Division, Chennai

Local River : Nattar

River Water

Sub-Division : Cauvery Delta SD, Karaikal

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	River Dry	River Dry	River Dry	River Dry	River Dry
2	EC_GEN (μmho/cm)					
3	pH_FLD (pH units)					
4	pH_GEN (pH units)					
5	TDS (mg/L)					
6	Temp (deg C)					
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)					
2	ALK-TOT (mgCaCO3/L)					
3	Ca (mg/L)					
4	Cl (mg/L)					
5	CO3 (mg/L)					
6	F (mg/L)					
7	Fe (mg/L)					
8	HCO3 (mg/L)					
9	K (mg/L)					
10	Mg (mg/L)					
11	Na (mg/L)					
12	NH3-N (mg N/L)					
13	NO2+NO3 (mg N/L)					
14	NO2-N (mgN/L)					
15	NO3-N (mgN/L)					
16	o-PO4-P (mg P/L)					
17	SO4 (mg/L)					
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
	TRACE & TOXIC					
1	As (μg/L)					
2	Cd (μg/L)					
3	Cr (μg/L)					
4	Cu (μg/L)					
5	Hg (μg/L)					
6	Ni (μg/L)					
7	Pb (μg/L)					
8	Zn (μg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)					
2	HAR_Total (mgCaCO3/L)					
3	Na% (%)					
4	RSC (-)					
5	SAR (-)					
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Annavasal (CCA21G5)

Division : Hydrology Division, Chennai

Local River : Nattar

River Water

Sub-Division : Cauvery Delta SD, Karaikal

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	River Dry	River Dry	River Dry	River Dry
2	EC_GEN (µmho/cm)				
3	pH_FLD (pH units)				
4	pH_GEN (pH units)				
5	TDS (mg/L)				
6	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	Ca (mg/L)				
4	Cl (mg/L)				
5	CO3 (mg/L)				
6	F (mg/L)				
7	Fe (mg/L)				
8	HCO3 (mg/L)				
9	K (mg/L)				
10	Mg (mg/L)				
11	Na (mg/L)				
12	NH3-N (mg N/L)				
13	NO2+NO3 (mg N/L)				
14	NO2-N (mgN/L)				
15	NO3-N (mgN/L)				
16	o-PO4-P (mg P/L)				
17	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Hg (µg/L)				
6	Ni (µg/L)				
7	Pb (µg/L)				
8	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Annavasal (CCA21G5)

Division : Hydrology Division, Chennai

Local River : Nattar

River Water

Sub-Division : Cauvery Delta SD, Karaikal

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	River Dry	0.102	River Dry	River Dry
2	EC_GEN (µmho/cm)				
3	pH_FLD (pH units)				
4	pH_GEN (pH units)				
5	TDS (mg/L)				
6	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	Ca (mg/L)				
4	Cl (mg/L)				
5	CO3 (mg/L)				
6	F (mg/L)				
7	Fe (mg/L)				
8	HCO3 (mg/L)				
9	K (mg/L)				
10	Mg (mg/L)				
11	Na (mg/L)				
12	NH3-N (mg N/L)				
13	NO2+NO3 (mg N/L)				
14	NO2-N (mgN/L)				
15	NO3-N (mgN/L)				
16	o-PO4-P (mg P/L)				
17	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Hg (µg/L)				
6	Ni (µg/L)				
7	Pb (µg/L)				
8	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: NALLATHUR	Code	: CCA12G3
State	: Pondicherry	District	Karaikal
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Nandalar	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Nandalar
Division	: Hydrology Division, Chennai	Sub-Division	: Cauvery Delta SD, Karaikkal
Drainage Area	: Sq. Km.	Bank	: Right
Latitude	: 11°00'08"	Longitude	: 79°45'01"
Zero of Gauge (m)	: 0.000 (m.s.l)	01/06/2006	
	Opening Date	Closing Date	
Gauge	: 01/06/2006		
Discharge	: 01/06/2006		
Sediment	:		
Water Quality	: 01/09/2008		

Water Quality Datasheet for the period : 2017-2018

Station Name : Nallathur (CCA12G3)

Division : Hydrology Division, Chennai

Local River : Nandalar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.000	0.000	0.000
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Nallathur (CCA12G3)

Division : Hydrology Division, Chennai

Local River : Nandalar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/09/2017	01/10/2017	02/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.000	0.000	19.85
2	Colour_Cod (-)			Brown
3	EC_GEN (µmho/cm)			435
4	Odour_Code (-)			odour free
5	pH_FLD (pH units)			7.0
6	pH_GEN (pH units)			6.9
7	TDS (mg/L)			231
8	Temp (deg C)			26.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			0.0
2	ALK-TOT (mgCaCO3/L)			84
3	Ca (mg/L)			14
4	Cl (mg/L)			76.5
5	CO3 (mg/L)			0.0
6	F (mg/L)			0.62
7	Fe (mg/L)			
8	HCO3 (mg/L)			103
9	K (mg/L)			3.5
10	Mg (mg/L)			6.8
11	Na (mg/L)			59.3
12	NH3-N (mg N/L)			0.03
13	NO2+NO3 (mg N/L)			0.17
14	NO2-N (mgN/L)			0.01
15	NO3-N (mgN/L)			0.17
16	o-PO4-P (mg P/L)			0.186
17	SO4 (mg/L)			14.3
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			2.2
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			36
2	HAR_Total (mgCaCO3/L)			64
3	Na% (%)			65
4	RSC (-)			0.4
5	SAR (-)			3.2
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Nallathur (CCA12G3)

Division : Hydrology Division, Chennai

Local River : Nandalar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/12/2017	11/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	11.54	2.375	0.000
2	Colour_Cod (-)	Brown	Brown	
3	EC_GEN (µmho/cm)	397	601	
4	Odour_Code (-)	odour free	odour free	
5	pH_FLD (pH units)	7.0	7.0	
6	pH_GEN (pH units)	8.3	8.3	
7	TDS (mg/L)	211	313	
8	Temp (deg C)	25.5	25.0	
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	
2	ALK-TOT (mgCaCO3/L)	93	97	
3	Ca (mg/L)	18	22	
4	Cl (mg/L)	64.7	96.1	
5	CO3 (mg/L)	0.0	0.0	
6	F (mg/L)	0.39	0.59	
7	Fe (mg/L)	0.0		
8	HCO3 (mg/L)	113	118	
9	K (mg/L)	3.1	4.7	
10	Mg (mg/L)	13.6	15.6	
11	Na (mg/L)	50.0	74.6	
12	NH3-N (mg N/L)	0.02	0.02	
13	NO2+NO3 (mg N/L)	0.09	0.03	
14	NO2-N (mgN/L)	0.01	0.01	
15	NO3-N (mgN/L)	0.08	0.02	
16	o-PO4-P (mg P/L)	0.006	0.006	
17	SO4 (mg/L)	11.6	37.8	
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.5	2.0	
	TRACE & TOXIC			
1	As (µg/L)	2.06		
2	Cd (µg/L)	0.06		
3	Cr (µg/L)	5.15		
4	Cu (µg/L)	1.88		
5	Ni (µg/L)	0.55		
6	Pb (µg/L)	0.98		
7	Zn (µg/L)	11.70		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	44	56	
2	HAR_Total (mgCaCO3/L)	101	121	
3	Na% (%)	51	56	
4	RSC (-)	0.0	0.0	
5	SAR (-)	2.2	3.0	
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Nallathur (CCA12G3)

Division : Hydrology Division, Chennai

Local River : Nandalar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.000	0.000	0.000
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : Nallathur (CCA12G3)

Division : Hydrology Division, Chennai

Local River : Nandalar

Sub-Division : Cauvery Delta SD, Karaikkal

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	47.13	0.000	1.225
2	EC_GEN (µmho/cm)	3	601	397	478
3	pH_FLD (pH units)	3	7.0	7.0	7
4	pH_GEN (pH units)	3	8.3	6.9	7.8
5	TDS (mg/L)	3	313	211	252
6	Temp (deg C)	3	26.0	25.0	25.5
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	3	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	3	97	84	91
3	Ca (mg/L)	3	22	14	18
4	Cl (mg/L)	3	96.1	64.7	79.1
5	CO3 (mg/L)	3	0.0	0.0	0
6	F (mg/L)	3	0.62	0.39	0.53
7	Fe (mg/L)	1	0.0	0.0	0
8	HCO3 (mg/L)	3	118	103	111
9	K (mg/L)	3	4.7	3.1	3.8
10	Mg (mg/L)	3	15.6	6.8	12
11	Na (mg/L)	3	74.6	50.0	61.3
12	NH3-N (mg N/L)	3	0.03	0.02	0.02
13	NO2+NO3 (mg N/L)	3	0.17	0.03	0.1
14	NO2-N (mgN/L)	3	0.01	0.01	0.01
15	NO3-N (mgN/L)	3	0.17	0.02	0.09
16	o-PO4-P (mg P/L)	3	0.186	0.006	0.066
17	SO4 (mg/L)	3	37.8	11.6	21.2
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	3	2.2	1.5	1.9
	TRACE & TOXIC				
1	As (µg/L)	1	2.06	2.06	2.06
2	Cd (µg/L)	1	0.06	0.06	0.06
3	Cr (µg/L)	1	5.15	5.15	5.15
4	Cu (µg/L)	1	1.88	1.88	1.88
5	Ni (µg/L)	1	0.55	0.55	0.55
6	Pb (µg/L)	1	0.98	0.98	0.98
7	Zn (µg/L)	1	11.70	11.70	11.7
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	3	56	36	45
2	HAR_Total (mgCaCO3/L)	3	121	64	95
3	Na% (%)	3	65	51	58
4	RSC (-)	3	0.4	0.0	0.1
5	SAR (-)	3	3.2	2.2	2.8
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Nallathur (CCA12G3)

Division : Hydrology Division, Chennai

Local River : Nandalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	1.860	1.832	0.000	0.919	0.261
2	EC_GEN (µmho/cm)		456		598	1086
3	pH_FLD (pH units)		7.0		7.0	7.0
4	pH_GEN (pH units)		7.2		7.9	7.7
5	TDS (mg/L)					
6	Temp (deg C)		26.0		26.9	29.5
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0		0.0	0.0
2	ALK-TOT (mgCaCO3/L)		200		223	280
3	Ca (mg/L)		42		23	55
4	Cl (mg/L)		43.8		73.9	135.6
5	CO3 (mg/L)		0.0		0.0	0.0
6	F (mg/L)				0.53	0.78
7	Fe (mg/L)					
8	HCO3 (mg/L)		243		273	342
9	K (mg/L)				6.0	6.7
10	Mg (mg/L)		7.8		18.0	5.8
11	Na (mg/L)				86.0	154.3
12	NH3-N (mg N/L)					
13	NO2+NO3 (mg N/L)					
14	NO2-N (mgN/L)					
15	NO3-N (mgN/L)				0.88	3.96
16	o-PO4-P (mg P/L)					
17	SO4 (mg/L)				28.8	21.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)				1.0	1.4
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		104		57	136
2	HAR_Total (mgCaCO3/L)		136		132	161
3	Na% (%)				58	67
4	RSC (-)		1.3		1.8	2.4
5	SAR (-)				3.3	5.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Nallathur (CCA12G3)

Division : Hydrology Division, Chennai

Local River : Nandalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	0.615	0.167	0.100	0.025	1.375
2	EC_GEN (µmho/cm)	520	1006	552	1232	1007
3	pH_FLD (pH units)	7.0	7.0	7.0	7.0	7.0
4	pH_GEN (pH units)	7.6	7.9	7.8	7.8	8.1
5	TDS (mg/L)	277	536	302	724	567
6	Temp (deg C)	24.0	30.0	30.0	30.3	28.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	18.8
2	ALK-TOT (mgCaCO3/L)	155	245	173	268	226
3	Ca (mg/L)	24	22	31	32	31
4	Cl (mg/L)	39.9	195.7	82.2	254.1	195.6
5	CO3 (mg/L)	0.0	0.0	0.0	0.0	22.7
6	F (mg/L)	0.72	1.03	0.47	0.79	0.52
7	Fe (mg/L)					
8	HCO3 (mg/L)	189	299	210	327	230
9	K (mg/L)	4.2	5.3	4.9	5.7	6.2
10	Mg (mg/L)	16.2	17.2	17.8	32.0	21.6
11	Na (mg/L)	42.0	184.0	62.6	194.8	150.3
12	NH3-N (mg N/L)				0.09	0.07
13	NO2+NO3 (mg N/L)				1.03	0.88
14	NO2-N (mgN/L)				0.00	0.00
15	NO3-N (mgN/L)	0.13	2.48	0.88	1.02	0.88
16	o-PO4-P (mg P/L)				0.100	0.041
17	SO4 (mg/L)	25.5	35.6	26.8	65.8	34.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.3	1.5	1.2	1.8	1.8
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	59	54	78	80	78
2	HAR_Total (mgCaCO3/L)	126	126	152	214	168
3	Na% (%)	41	75	46	66	65
4	RSC (-)	0.6	2.4	0.4	1.1	1.2
5	SAR (-)	1.6	7.2	2.2	5.8	4.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Nallathur (CCA12G3)

Division : Hydrology Division, Chennai

Local River : Nandalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	0.000	4.168	18.79	3.854	15.23
2	EC_GEN (µmho/cm)			206	435	463
3	pH_FLD (pH units)			7.0	7.0	7.0
4	pH_GEN (pH units)			7.0	7.6	7.9
5	TDS (mg/L)					
6	Temp (deg C)			26.3	25.9	24.6
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)			0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)			100	276	196
3	Ca (mg/L)			19	29	24
4	Cl (mg/L)			47.7	88.5	52.2
5	CO3 (mg/L)			0.0	0.0	0.0
6	F (mg/L)				0.40	0.34
7	Fe (mg/L)					
8	HCO3 (mg/L)			122	336	239
9	K (mg/L)				7.7	4.5
10	Mg (mg/L)			11.2	14.1	17.2
11	Na (mg/L)				107.1	55.2
12	NH3-N (mg N/L)					
13	NO2+NO3 (mg N/L)					
14	NO2-N (mgN/L)					
15	NO3-N (mgN/L)					0.41
16	o-PO4-P (mg P/L)					
17	SO4 (mg/L)				13.1	10.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)				1.1	0.7
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)			48	73	60
2	HAR_Total (mgCaCO3/L)			95	132	132
3	Na% (%)				62	44
4	RSC (-)			0.1	2.9	1.3
5	SAR (-)				4.1	2.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Nallathur (CCA12G3)

Division : Hydrology Division, Chennai

Local River : Nandalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	19.45	12.69	0.000	5.451	10.60
2	EC_GEN (µmho/cm)	422	475		427	710
3	pH_FLD (pH units)	7.0	7.0		7.5	7.0
4	pH_GEN (pH units)	7.6	8.1		7.8	7.9
5	TDS (mg/L)		253		228	382
6	Temp (deg C)	26.5	25.8		26.5	26.4
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	6.1		0.0	4.7
2	ALK-TOT (mgCaCO3/L)	136	161		125	154
3	Ca (mg/L)	11	24		22	29
4	Cl (mg/L)	49.3	72.3		64.0	129.9
5	CO3 (mg/L)	0.0	7.3		0.0	5.6
6	F (mg/L)	0.30	0.66		0.33	0.43
7	Fe (mg/L)				0.0	
8	HCO3 (mg/L)	166	182		153	177
9	K (mg/L)	4.2	3.6		3.2	4.1
10	Mg (mg/L)	19.4	11.9		11.3	16.7
11	Na (mg/L)	41.5	76.9		48.0	96.5
12	NH3-N (mg N/L)					0.05
13	NO2+NO3 (mg N/L)					0.53
14	NO2-N (mgN/L)					0.00
15	NO3-N (mgN/L)	0.46	0.54		2.09	0.53
16	o-PO4-P (mg P/L)					0.004
17	SO4 (mg/L)	5.9	15.5		7.6	30.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.2	2.6		2.0	1.6
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)				1.37	
3	Cr (µg/L)				18.27	
4	Cu (µg/L)				14.33	
5	Ni (µg/L)				0.28	
6	Pb (µg/L)				0.48	
7	Zn (µg/L)				3.00	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	28	59		55	72
2	HAR_Total (mgCaCO3/L)	109	108		102	141
3	Na% (%)	45	54		50	57
4	RSC (-)	0.6	1.1		0.5	0.3
5	SAR (-)	1.8	2.9		2.1	3.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Nallathur (CCA12G3)

Division : Hydrology Division, Chennai

Local River : Nandalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	1.729	8.442	0.000	0.000	0.000
2	EC_GEN (µmho/cm)	846	478			
3	pH_FLD (pH units)	7.0	7.0			
4	pH_GEN (pH units)	7.9	7.8			
5	TDS (mg/L)	465	252			
6	Temp (deg C)	25.5	25.5			
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0			
2	ALK-TOT (mgCaCO3/L)	177	91			
3	Ca (mg/L)	25	18			
4	Cl (mg/L)	164.6	79.1			
5	CO3 (mg/L)	0.0	0.0			
6	F (mg/L)	0.46	0.53			
7	Fe (mg/L)	0.1	0.0			
8	HCO3 (mg/L)	216	111			
9	K (mg/L)	4.5	3.8			
10	Mg (mg/L)	16.3	12.0			
11	Na (mg/L)	126.7	61.3			
12	NH3-N (mg N/L)	0.06	0.02			
13	NO2+NO3 (mg N/L)	0.69	0.10			
14	NO2-N (mgN/L)	0.00	0.01			
15	NO3-N (mgN/L)	0.69	0.09			
16	o-PO4-P (mg P/L)	0.052	0.066			
17	SO4 (mg/L)	31.0	21.2			
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.1	1.9			
	TRACE & TOXIC					
1	As (µg/L)	3.04	2.06			
2	Cd (µg/L)	0.01	0.06			
3	Cr (µg/L)	2.29	5.15			
4	Cu (µg/L)	2.45	1.88			
5	Ni (µg/L)	6.13	0.55			
6	Pb (µg/L)	1.18	0.98			
7	Zn (µg/L)	0.60	11.70			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	63	45			
2	HAR_Total (mgCaCO3/L)	131	95			
3	Na% (%)	67	58			
4	RSC (-)	0.9	0.1			
5	SAR (-)	4.8	2.8			
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Nallathur (CCA12G3)

Division : Hydrology Division, Chennai

Local River : Nandalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	0.000	0.000	0.000	0.629
2	EC_GEN (µmho/cm)				855
3	pH_FLD (pH units)				7.0
4	pH_GEN (pH units)				8.3
5	TDS (mg/L)				454
6	Temp (deg C)				27.0
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				13.9
2	ALK-TOT (mgCaCO3/L)				181
3	Ca (mg/L)				29
4	Cl (mg/L)				147.5
5	CO3 (mg/L)				16.7
6	F (mg/L)				0.65
7	Fe (mg/L)				0.1
8	HCO3 (mg/L)				187
9	K (mg/L)				5.4
10	Mg (mg/L)				27.6
11	Na (mg/L)				104.0
12	NH3-N (mg N/L)				
13	NO2+NO3 (mg N/L)				
14	NO2-N (mgN/L)				
15	NO3-N (mgN/L)				6.25
16	o-PO4-P (mg P/L)				
17	SO4 (mg/L)				35.0
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				1.6
	TRACE & TOXIC				
1	As (µg/L)				2.78
2	Cd (µg/L)				0.02
3	Cr (µg/L)				0.94
4	Cu (µg/L)				7.83
5	Ni (µg/L)				6.91
6	Pb (µg/L)				4.61
7	Zn (µg/L)				12.00
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				72
2	HAR_Total (mgCaCO3/L)				187
3	Na% (%)				54
4	RSC (-)				0.0
5	SAR (-)				3.3
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Nallathur (CCA12G3)

Division : Hydrology Division, Chennai

Local River : Nandalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	1.403	0.637	0.999	0.000
2	EC_GEN (µmho/cm)	421	768	626	
3	pH_FLD (pH units)	7.0	7.0	7.0	
4	pH_GEN (pH units)	7.9	7.5	7.8	
5	TDS (mg/L)	223	428	342	
6	Temp (deg C)	30.0	29.0	25.0	
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	
2	ALK-TOT (mgCaCO3/L)	108	152	122	
3	Ca (mg/L)	23	32	18	
4	Cl (mg/L)	61.8	147.1	121.1	
5	CO3 (mg/L)	0.0	0.0	0.0	
6	F (mg/L)	0.39	0.56	0.26	
7	Fe (mg/L)				
8	HCO3 (mg/L)	132	186	149	
9	K (mg/L)	2.9	4.4	3.6	
10	Mg (mg/L)	11.4	15.6	9.7	
11	Na (mg/L)	46.1	112.5	93.0	
12	NH3-N (mg N/L)	0.08	0.05	0.03	
13	NO2+NO3 (mg N/L)	0.80	0.69	0.54	
14	NO2-N (mgN/L)	0.00	0.00	0.00	
15	NO3-N (mgN/L)	0.79	0.69	0.54	
16	o-PO4-P (mg P/L)	0.006	0.238	0.004	
17	SO4 (mg/L)	22.0	34.7	20.4	
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.6	1.1	2.7	
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	57	80	44	
2	HAR_Total (mgCaCO3/L)	104	145	85	
3	Na% (%)	48	62	70	
4	RSC (-)	0.1	0.2	0.8	
5	SAR (-)	2.0	4.1	4.4	
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: MENANGUDI	Code	: CCA23N4
State	: Tamil Nadu	District	Tiruvarur
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: -	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Noolar
Division	: Hydrology Division, Chennai	Sub-Division	: Cauvery Delta SD, Karaikkal
Drainage Area	: Sq. Km.	Bank	: Left
Latitude	: 10°56'56"	Longitude	: 79°42'14"
Zero of Gauge (m)	: 4.280 (m.s.l) 4.000 (m.s.l)	08/08/1996 01/03/1997	- 28/02/1997
	Opening Date	Closing Date	
Gauge	: 08/08/1996		
Discharge	: 21/08/1996		
Sediment	:		
Water Quality	: 01/09/2005		

Water Quality Datasheet for the period : 2017-2018

Station Name : Menangudi (CCA23N4)

Division : Hydrology Division, Chennai

Local River : Noolar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.000	0.000	0.000
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Menangudi (CCA23N4)

Division : Hydrology Division, Chennai

Local River : Noolar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/09/2017	27/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.000	1.121	3.607
2	Colour_Cod (-)		Clear	Brown
3	EC_GEN (μmho/cm)		391	476
4	Odour_Code (-)		odour free	odour free
5	pH_FLD (pH units)		7.0	7.0
6	pH_GEN (pH units)		7.1	7.4
7	TDS (mg/L)		208	253
8	Temp (deg C)		26.0	27.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	0.0
2	ALK-TOT (mgCaCO3/L)		93	101
3	Ca (mg/L)		22	24
4	Cl (mg/L)		44.7	74.5
5	CO3 (mg/L)		0.0	0.0
6	F (mg/L)		0.61	0.49
7	Fe (mg/L)			
8	HCO3 (mg/L)		113	123
9	K (mg/L)		4.9	4.6
10	Mg (mg/L)		13.6	8.8
11	Na (mg/L)		34.0	57.0
12	NH3-N (mg N/L)		0.05	0.03
13	NO2+NO3 (mg N/L)		0.19	0.28
14	NO2-N (mgN/L)		0.01	0.01
15	NO3-N (mgN/L)		0.19	0.27
16	o-PO4-P (mg P/L)		0.040	0.158
17	SO4 (mg/L)		25.3	17.2
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		1.7	0.8
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		56	60
2	HAR_Total (mgCaCO3/L)		113	97
3	Na% (%)		38	55
4	RSC (-)		0.0	0.1
5	SAR (-)		1.4	2.5
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Menangudi (CCA23N4)

Division : Hydrology Division, Chennai

Local River : Noolar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	7.145	0.000	0.000
2	Colour_Cod (-)	Brown		
3	EC_GEN (μmho/cm)	374		
4	Odour_Code (-)	odour free		
5	pH_FLD (pH units)	7.0		
6	pH_GEN (pH units)	8.8		
7	TDS (mg/L)	198		
8	Temp (deg C)	27.5		
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	4.2		
2	ALK-TOT (mgCaCO3/L)	72		
3	Ca (mg/L)	10		
4	Cl (mg/L)	66.7		
5	CO3 (mg/L)	5.1		
6	F (mg/L)	0.33		
7	Fe (mg/L)	0.0		
8	HCO3 (mg/L)	77		
9	K (mg/L)	3.1		
10	Mg (mg/L)	7.8		
11	Na (mg/L)	51.0		
12	NH3-N (mg N/L)	0.03		
13	NO2+NO3 (mg N/L)	0.02		
14	NO2-N (mgN/L)	0.01		
15	NO3-N (mgN/L)	0.01		
16	o-PO4-P (mg P/L)	0.004		
17	SO4 (mg/L)	11.8		
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	2.9		
	TRACE & TOXIC			
1	As (μg/L)	1.74		
2	Cd (μg/L)	0.05		
3	Cr (μg/L)	5.03		
4	Cu (μg/L)	2.18		
5	Ni (μg/L)	8.03		
6	Pb (μg/L)	0.53		
7	Zn (μg/L)	11.00		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	24		
2	HAR_Total (mgCaCO3/L)	56		
3	Na% (%)	65		
4	RSC (-)	0.3		
5	SAR (-)	3.0		
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Menangudi (CCA23N4)

Division : Hydrology Division, Chennai

Local River : Noolar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.000	0.000	0.000
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : Menangudi (CCA23N4)

Division : Hydrology Division, Chennai

Local River : Noolar

Sub-Division : Cauvery Delta SD, Karaikkal

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	13.11	0.000	0.273
2	EC_GEN (μmho/cm)	3	476	374	414
3	pH_FLD (pH units)	3	7.0	7.0	7
4	pH_GEN (pH units)	3	8.8	7.1	7.8
5	TDS (mg/L)	3	253	198	220
6	Temp (deg C)	3	27.5	26.0	27
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	3	4.2	0.0	1.4
2	ALK-TOT (mgCaCO3/L)	3	101	72	88
3	Ca (mg/L)	3	24	10	19
4	Cl (mg/L)	3	74.5	44.7	61.9
5	CO3 (mg/L)	3	5.1	0.0	1.7
6	F (mg/L)	3	0.61	0.33	0.48
7	Fe (mg/L)	1	0.0	0.0	0
8	HCO3 (mg/L)	3	123	77	104
9	K (mg/L)	3	4.9	3.1	4.2
10	Mg (mg/L)	3	13.6	7.8	10.1
11	Na (mg/L)	3	57.0	34.0	47.3
12	NH3-N (mg N/L)	3	0.05	0.03	0.04
13	NO2+NO3 (mg N/L)	3	0.28	0.02	0.16
14	NO2-N (mgN/L)	3	0.01	0.01	0.01
15	NO3-N (mgN/L)	3	0.27	0.01	0.16
16	o-PO4-P (mg P/L)	3	0.158	0.004	0.067
17	SO4 (mg/L)	3	25.3	11.8	18.1
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	3	2.9	0.8	1.8
	TRACE & TOXIC				
1	As (μg/L)	1	1.74	1.74	1.74
2	Cd (μg/L)	1	0.05	0.05	0.05
3	Cr (μg/L)	1	5.03	5.03	5.03
4	Cu (μg/L)	1	2.18	2.18	2.18
5	Ni (μg/L)	1	8.03	8.03	8.03
6	Pb (μg/L)	1	0.53	0.53	0.53
7	Zn (μg/L)	1	11.00	11.00	11
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	3	60	24	47
2	HAR_Total (mgCaCO3/L)	3	113	56	89
3	Na% (%)	3	65	38	53
4	RSC (-)	3	0.3	0.0	0.1
5	SAR (-)	3	3.0	1.4	2.3
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Menangudi (CCA23N4)

Division : Hydrology Division, Chennai

Local River : Noolar

Sub-Division : Cauvery Delta SD, Karaikkal

River Water

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	1.513	2.176	2.623	3.021	5.311
2	EC_GEN (μmho/cm)		411	324	560	441
3	pH_FLD (pH units)		7.0	7.0	7.5	7.2
4	pH_GEN (pH units)		7.7	7.5	7.9	8.4
5	TDS (mg/L)					
6	Temp (deg C)		31.0	29.0	27.8	29.2
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0	0.0	0.0	4.0
2	ALK-TOT (mgCaCO3/L)		159	140	199	151
3	Ca (mg/L)		30	25	29	24
4	Cl (mg/L)		54.3	37.2	70.4	49.6
5	CO3 (mg/L)		0.0	0.0	0.0	4.8
6	F (mg/L)			0.30	0.45	0.44
7	Fe (mg/L)					
8	HCO3 (mg/L)		194	171	242	174
9	K (mg/L)			4.8	7.0	5.5
10	Mg (mg/L)		16.5	13.1	21.9	21.1
11	Na (mg/L)			29.4	60.6	38.3
12	NH3-N (mg N/L)					
13	NO2+NO3 (mg N/L)					
14	NO2-N (mgN/L)					
15	NO3-N (mgN/L)				0.53	2.59
16	o-PO4-P (mg P/L)					
17	SO4 (mg/L)		18.8	12.2	19.2	13.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)				1.7	1.2
	TRACE & TOXIC					
1	As (μg/L)					
2	Cd (μg/L)					
3	Cr (μg/L)					
4	Cu (μg/L)					
5	Hg (μg/L)					
6	Ni (μg/L)					
7	Pb (μg/L)					
8	Zn (μg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		76	63	74	60
2	HAR_Total (mgCaCO3/L)		145	118	165	148
3	Na% (%)			34	43	34
4	RSC (-)		0.3	0.5	0.7	0.2
5	SAR (-)			1.2	2.1	1.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Menangudi (CCA23N4)

Division : Hydrology Division, Chennai

Local River : Noolar

Sub-Division : Cauvery Delta SD, Karaikkal

River Water

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	1.405	1.527	3.899	2.942	0.446
2	EC_GEN (µmho/cm)	454	323	271	425	443
3	pH_FLD (pH units)	7.0	7.0	7.0	7.0	7.0
4	pH_GEN (pH units)	7.7	8.1	8.2	7.6	7.2
5	TDS (mg/L)	242	171	144	235	245
6	Temp (deg C)	24.8	25.8	29.8	29.7	26.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	5.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	151	83	78	133	125
3	Ca (mg/L)	27	25	22	26	32
4	Cl (mg/L)	51.9	56.7	41.1	54.1	56.7
5	CO3 (mg/L)	0.0	0.0	6.0	0.0	0.0
6	F (mg/L)	0.85	0.27	0.29	0.43	0.31
7	Fe (mg/L)	0.0	0.0			
8	HCO3 (mg/L)	184	102	82	163	153
9	K (mg/L)	5.5	3.2	3.2	4.1	5.1
10	Mg (mg/L)	19.0	8.1	10.6	14.3	12.6
11	Na (mg/L)	37.4	35.7	23.9	40.5	40.1
12	NH3-N (mg N/L)				0.05	0.04
13	NO2+NO3 (mg N/L)				0.42	0.76
14	NO2-N (mgN/L)				0.00	0.00
15	NO3-N (mgN/L)	0.13	2.07	1.30	0.42	0.75
16	o-PO4-P (mg P/L)				0.028	0.048
17	SO4 (mg/L)	14.6	17.2	15.8	17.0	21.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.6	1.4	1.5	1.4	2.4
	TRACE & TOXIC					
1	As (µg/L)	5.58	0.01			
2	Cd (µg/L)	0.94	0.50			
3	Cr (µg/L)	1.23	0.90			
4	Cu (µg/L)	33.06	2.09			
5	Hg (µg/L)		0.44			
6	Ni (µg/L)	1.07	13.40			
7	Pb (µg/L)		7.30			
8	Zn (µg/L)	1.47	3.00			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	69	63	54	65	80
2	HAR_Total (mgCaCO3/L)	148	96	98	124	133
3	Na% (%)	35	40	34	41	39
4	RSC (-)	0.1	0.0	0.0	0.2	0.0
5	SAR (-)	1.3	1.6	1.1	1.6	1.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Menangudi (CCA23N4)

Division : Hydrology Division, Chennai

Local River : Noolar

Sub-Division : Cauvery Delta SD, Karaikkal

River Water

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	0.224	1.339	5.232	2.179	5.633
2	EC_GEN (μmho/cm)	391		234	568	453
3	pH_FLD (pH units)	7.0		7.0	7.0	7.0
4	pH_GEN (pH units)	7.1		7.3	7.6	8.1
5	TDS (mg/L)	208				
6	Temp (deg C)	26.0		28.0	25.5	26.8
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0		0.0	0.0	5.5
2	ALK-TOT (mgCaCO3/L)	93		113	278	176
3	Ca (mg/L)	22		22	29	27
4	Cl (mg/L)	44.7		40.0	83.9	50.3
5	CO3 (mg/L)	0.0		0.0	0.0	6.7
6	F (mg/L)	0.61			0.39	0.37
7	Fe (mg/L)					
8	HCO3 (mg/L)	113		137	339	201
9	K (mg/L)	4.9			7.7	4.6
10	Mg (mg/L)	13.6		10.7	14.1	18.1
11	Na (mg/L)	34.0			109.3	43.5
12	NH3-N (mg N/L)	0.05				
13	NO2+NO3 (mg N/L)	0.19				
14	NO2-N (mgN/L)	0.01				
15	NO3-N (mgN/L)	0.19				0.45
16	o-PO4-P (mg P/L)	0.040				
17	SO4 (mg/L)	25.3			14.3	13.9
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.7			0.4	1.4
	TRACE & TOXIC					
1	As (μg/L)					
2	Cd (μg/L)					
3	Cr (μg/L)					
4	Cu (μg/L)					
5	Hg (μg/L)					
6	Ni (μg/L)					
7	Pb (μg/L)					
8	Zn (μg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	56		56	71	67
2	HAR_Total (mgCaCO3/L)	113		101	130	142
3	Na% (%)	38			63	38
4	RSC (-)	0.0		0.3	3.0	0.7
5	SAR (-)	1.4			4.2	1.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Menangudi (CCA23N4)

Division : Hydrology Division, Chennai

Local River : Noolar

Sub-Division : Cauvery Delta SD, Karaikkal

River Water

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	3.532	3.047	0.000	1.089	4.033
2	EC_GEN (µmho/cm)	449	249		517	457
3	pH_FLD (pH units)	7.0	7.0		7.0	7.0
4	pH_GEN (pH units)	8.3	7.8		7.6	8.1
5	TDS (mg/L)		132		275	252
6	Temp (deg C)	25.2	27.0		26.0	27.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	15.3	0.0		0.0	9.4
2	ALK-TOT (mgCaCO3/L)	150	82		140	120
3	Ca (mg/L)	20	16		27	24
4	Cl (mg/L)	59.6	21.7		72.3	72.7
5	CO3 (mg/L)	18.4	0.0		0.0	11.3
6	F (mg/L)	0.30	0.44		0.33	0.38
7	Fe (mg/L)					
8	HCO3 (mg/L)	145	100		171	123
9	K (mg/L)	3.7	2.0		3.5	3.9
10	Mg (mg/L)	19.4	5.7		12.3	14.7
11	Na (mg/L)	43.4	22.9		53.5	51.3
12	NH3-N (mg N/L)					0.04
13	NO2+NO3 (mg N/L)					0.32
14	NO2-N (mgN/L)					0.00
15	NO3-N (mgN/L)	0.44	1.53		2.31	0.32
16	o-PO4-P (mg P/L)					0.010
17	SO4 (mg/L)	3.4	4.9		15.1	19.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.8	2.5		1.3	1.6
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	51	39		68	60
2	HAR_Total (mgCaCO3/L)	132	63		119	122
3	Na% (%)	41	43		49	47
4	RSC (-)	0.4	0.4		0.4	0.2
5	SAR (-)	1.7	1.3		2.1	2.0
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Menangudi (CCA23N4)

Division : Hydrology Division, Chennai

Local River : Noolar

Sub-Division : Cauvery Delta SD, Karaikkal

River Water

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	0.000	2.688	0.000	0.000	0.000
2	EC_GEN (µmho/cm)		425			
3	pH_FLD (pH units)		7.0			
4	pH_GEN (pH units)		8.1			
5	TDS (mg/L)		226			
6	Temp (deg C)		27.5			
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		2.1			
2	ALK-TOT (mgCaCO3/L)		86			
3	Ca (mg/L)		17			
4	Cl (mg/L)		70.6			
5	CO3 (mg/L)		2.5			
6	F (mg/L)		0.41			
7	Fe (mg/L)		0.0			
8	HCO3 (mg/L)		100			
9	K (mg/L)		3.8			
10	Mg (mg/L)		8.3			
11	Na (mg/L)		54.0			
12	NH3-N (mg N/L)		0.03			
13	NO2+NO3 (mg N/L)		0.15			
14	NO2-N (mgN/L)		0.01			
15	NO3-N (mgN/L)		0.14			
16	o-PO4-P (mg P/L)		0.081			
17	SO4 (mg/L)		14.5			
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		1.9			
	TRACE & TOXIC					
1	As (µg/L)		1.74			
2	Cd (µg/L)		0.05			
3	Cr (µg/L)		5.03			
4	Cu (µg/L)		2.18			
5	Hg (µg/L)					
6	Ni (µg/L)		8.03			
7	Pb (µg/L)		0.53			
8	Zn (µg/L)		11.00			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		42			
2	HAR_Total (mgCaCO3/L)		77			
3	Na% (%)		60			
4	RSC (-)		0.2			
5	SAR (-)		2.7			
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Menangudi (CCA23N4)

Division : Hydrology Division, Chennai

Local River : Noolar

Sub-Division : Cauvery Delta SD, Karaikkal

River Water

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	0.000	0.000	0.000	0.000
2	EC_GEN (μmho/cm)				
3	pH_FLD (pH units)				
4	pH_GEN (pH units)				
5	TDS (mg/L)				
6	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	Ca (mg/L)				
4	Cl (mg/L)				
5	CO3 (mg/L)				
6	F (mg/L)				
7	Fe (mg/L)				
8	HCO3 (mg/L)				
9	K (mg/L)				
10	Mg (mg/L)				
11	Na (mg/L)				
12	NH3-N (mg N/L)				
13	NO2+NO3 (mg N/L)				
14	NO2-N (mgN/L)				
15	NO3-N (mgN/L)				
16	o-PO4-P (mg P/L)				
17	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
	TRACE & TOXIC				
1	As (μg/L)				
2	Cd (μg/L)				
3	Cr (μg/L)				
4	Cu (μg/L)				
5	Hg (μg/L)				
6	Ni (μg/L)				
7	Pb (μg/L)				
8	Zn (μg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Menangudi (CCA23N4)

Division : Hydrology Division, Chennai

Local River : Noolar

Sub-Division : Cauvery Delta SD, Karaikkal

River Water

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	0.396	0.000	0.000	0.000
2	EC_GEN (µmho/cm)	674			
3	pH_FLD (pH units)	7.0			
4	pH_GEN (pH units)	8.3			
5	TDS (mg/L)	343			
6	Temp (deg C)	27.5			
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	18.7			
2	ALK-TOT (mgCaCO3/L)	137			
3	Ca (mg/L)	16			
4	Cl (mg/L)	134.8			
5	CO3 (mg/L)	22.6			
6	F (mg/L)	0.51			
7	Fe (mg/L)				
8	HCO3 (mg/L)	121			
9	K (mg/L)	3.7			
10	Mg (mg/L)	12.2			
11	Na (mg/L)	106.0			
12	NH3-N (mg N/L)	0.10			
13	NO2+NO3 (mg N/L)	0.81			
14	NO2-N (mgN/L)	0.00			
15	NO3-N (mgN/L)	0.81			
16	o-PO4-P (mg P/L)	0.002			
17	SO4 (mg/L)	19.4			
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.5			
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Hg (µg/L)				
6	Ni (µg/L)				
7	Pb (µg/L)				
8	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	40			
2	HAR_Total (mgCaCO3/L)	91			
3	Na% (%)	71			
4	RSC (-)	0.9			
5	SAR (-)	4.9			
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: PORAKUDI	Code	: CCA20G5
State	: Tamil Nadu	District	Nagapattinam
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: -	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Arasalar
Division	: Hydrology Division, Chennai	Sub-Division	: Cauvery Delta SD, Karaikkal
Drainage Area	: Sq. Km.	Bank	: Right
Latitude	: 10°54'14"	Longitude	: 79°42'26"
Zero of Gauge (m)	: 3.000 (m.s.l) 2.000 (m.s.l)	27/11/1997 01/06/1999	- 31/05/1999
	Opening Date	Closing Date	
Gauge	: 27/11/1997		
Discharge	: 01/02/1999		
Sediment	:		
Water Quality	: 01/09/2005		

Water Quality Datasheet for the period : 2017-2018

Station Name : Porakudi (CCA20G5)

Division : Hydrology Division, Chennai

Local River : Arasalar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	B
	PHYSICAL			
1	Q (cumec)	0.000	0.000	0.000
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Porakudi (CCA20G5)

Division : Hydrology Division, Chennai

Local River : Arasalar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/09/2017	16/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.000	4.411	7.618
2	Colour_Cod (-)		Clear	Light Brown
3	EC_GEN (μmho/cm)		393	377
4	Odour_Code (-)		odour free	odour free
5	pH_FLD (pH units)		7.0	7.0
6	pH_GEN (pH units)		7.2	7.2
7	TDS (mg/L)		209	200
8	Temp (deg C)		26.5	26.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	0.0
2	ALK-TOT (mgCaCO3/L)		97	88
3	Ca (mg/L)		22	29
4	Cl (mg/L)		48.5	51.0
5	CO3 (mg/L)		0.0	0.0
6	F (mg/L)		0.60	0.31
7	Fe (mg/L)			
8	HCO3 (mg/L)		118	108
9	K (mg/L)		5.3	4.8
10	Mg (mg/L)		11.7	3.9
11	Na (mg/L)		37.2	38.2
12	NH3-N (mg N/L)		0.03	0.03
13	NO2+NO3 (mg N/L)		0.11	0.17
14	NO2-N (mgN/L)		0.01	0.01
15	NO3-N (mgN/L)		0.11	0.17
16	o-PO4-P (mg P/L)		0.068	0.007
17	SO4 (mg/L)		26.5	19.9
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		1.5	2.5
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		56	72
2	HAR_Total (mgCaCO3/L)		105	88
3	Na% (%)		42	47
4	RSC (-)		0.0	0.0
5	SAR (-)		1.6	1.8
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Porakudi (CCA20G5)

Division : Hydrology Division, Chennai

Local River : Arasalar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	22.86	0.000	0.000
2	Colour_Cod (-)	Clear		
3	EC_GEN (μmho/cm)	363		
4	Odour_Code (-)	odour free		
5	pH_FLD (pH units)	7.0		
6	pH_GEN (pH units)	8.8		
7	TDS (mg/L)	194		
8	Temp (deg C)	26.5		
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	8.4		
2	ALK-TOT (mgCaCO3/L)	55		
3	Ca (mg/L)	14		
4	Cl (mg/L)	62.7		
5	CO3 (mg/L)	10.1		
6	F (mg/L)	0.37		
7	Fe (mg/L)	0.0		
8	HCO3 (mg/L)	46		
9	K (mg/L)	4.0		
10	Mg (mg/L)	5.8		
11	Na (mg/L)	48.0		
12	NH3-N (mg N/L)	0.02		
13	NO2+NO3 (mg N/L)	0.06		
14	NO2-N (mgN/L)	0.01		
15	NO3-N (mgN/L)	0.05		
16	o-PO4-P (mg P/L)	0.006		
17	SO4 (mg/L)	20.3		
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	2.9		
	TRACE & TOXIC			
1	As (μg/L)	4.78		
2	Cd (μg/L)	0.02		
3	Cr (μg/L)	3.47		
4	Cu (μg/L)	6.15		
5	Ni (μg/L)	0.38		
6	Pb (μg/L)	1.01		
7	Zn (μg/L)	10.70		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	36		
2	HAR_Total (mgCaCO3/L)	60		
3	Na% (%)	62		
4	RSC (-)	0.0		
5	SAR (-)	2.7		
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Porakudi (CCA20G5)

Division : Hydrology Division, Chennai

Local River : Arasalar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.000	0.000	0.000
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : Porakudi (CCA20G5)

Division : Hydrology Division, Chennai

Local River : Arasalar

Sub-Division : Cauvery Delta SD, Karaikkal

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	44.28	0.000	1.203
2	EC_GEN (µmho/cm)	3	393	363	378
3	pH_FLD (pH units)	3	7.0	7.0	7
4	pH_GEN (pH units)	3	8.8	7.2	7.7
5	TDS (mg/L)	3	209	194	201
6	Temp (deg C)	3	26.5	26.0	26.3
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	3	8.4	0.0	2.8
2	ALK-TOT (mgCaCO3/L)	3	97	55	80
3	Ca (mg/L)	3	29	14	22
4	Cl (mg/L)	3	62.7	48.5	54.1
5	CO3 (mg/L)	3	10.1	0.0	3.4
6	F (mg/L)	3	0.60	0.31	0.43
7	Fe (mg/L)	1	0.0	0.0	0
8	HCO3 (mg/L)	3	118	46	91
9	K (mg/L)	3	5.3	4.0	4.7
10	Mg (mg/L)	3	11.7	3.9	7.1
11	Na (mg/L)	3	48.0	37.2	41.1
12	NH3-N (mg N/L)	3	0.03	0.02	0.03
13	NO2+NO3 (mg N/L)	3	0.17	0.06	0.12
14	NO2-N (mgN/L)	3	0.01	0.01	0.01
15	NO3-N (mgN/L)	3	0.17	0.05	0.11
16	o-PO4-P (mg P/L)	3	0.068	0.006	0.027
17	SO4 (mg/L)	3	26.5	19.9	22.2
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	3	2.9	1.5	2.3
	TRACE & TOXIC				
1	As (µg/L)	1	4.78	4.78	4.78
2	Cd (µg/L)	1	0.02	0.02	0.02
3	Cr (µg/L)	1	3.47	3.47	3.47
4	Cu (µg/L)	1	6.15	6.15	6.15
5	Ni (µg/L)	1	0.38	0.38	0.38
6	Pb (µg/L)	1	1.01	1.01	1.01
7	Zn (µg/L)	1	10.70	10.70	10.7
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	3	72	36	55
2	HAR_Total (mgCaCO3/L)	3	105	60	84
3	Na% (%)	3	62	42	50
4	RSC (-)	3	0.0	0.0	0
5	SAR (-)	3	2.7	1.6	2
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Porakudi (CCA20G5)

Division : Hydrology Division, Chennai

Local River : Arasalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	4.272	1.098	2.009	2.273	2.109
2	EC_GEN (µmho/cm)		531	334	510	496
3	pH_FLD (pH units)		7.0	7.0	7.3	7.0
4	pH_GEN (pH units)		7.8	7.5	7.9	8.4
5	TDS (mg/L)					
6	Temp (deg C)		32.5	28.5	26.0	29.8
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0	0.0	0.0	18.9
2	ALK-TOT (mgCaCO3/L)		179	167	187	156
3	Ca (mg/L)		25	28	31	28
4	Cl (mg/L)		71.8	35.3	67.0	71.1
5	CO3 (mg/L)		0.0	0.0	0.0	22.8
6	F (mg/L)			0.28	0.42	0.46
7	HCO3 (mg/L)		219	204	228	144
8	K (mg/L)			5.1	6.0	5.8
9	Mg (mg/L)		16.4	16.0	21.1	21.9
10	Na (mg/L)			30.8	50.1	47.7
11	NH3-N (mg N/L)					
12	NO2+NO3 (mg N/L)					
13	NO2-N (mgN/L)					
14	NO3-N (mgN/L)				0.46	2.87
15	o-PO4-P (mg P/L)					
16	SO4 (mg/L)		37.4	11.0	18.2	14.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)				1.4	1.8
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		62	69	78	69
2	HAR_Total (mgCaCO3/L)		130	136	165	160
3	Na% (%)			32	39	38
4	RSC (-)		1.0	0.6	0.4	0.1
5	SAR (-)			1.2	1.7	1.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Porakudi (CCA20G5)

Division : Hydrology Division, Chennai

Local River : Arasalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	0.036	0.492	2.024	0.310	0.000
2	EC_GEN (µmho/cm)	409	217	228	400	
3	pH_FLD (pH units)	7.0	7.3	8.0	7.5	
4	pH_GEN (pH units)	7.7	7.5	7.8	7.7	
5	TDS (mg/L)	216	115	131	215	
6	Temp (deg C)	29.0	29.8	31.5	31.0	
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	
2	ALK-TOT (mgCaCO3/L)	151	69	75	122	
3	Ca (mg/L)	27	21	18	22	
4	Cl (mg/L)	47.9	30.3	34.0	52.3	
5	CO3 (mg/L)	0.0	0.0	0.0	0.0	
6	F (mg/L)	0.84	0.23	0.29	0.41	
7	HCO3 (mg/L)	184	85	92	149	
8	K (mg/L)	7.3	2.9	2.8	3.9	
9	Mg (mg/L)	17.1	5.7	10.8	15.7	
10	Na (mg/L)	42.4	18.6	19.8	38.3	
11	NH3-N (mg N/L)				0.03	
12	NO2+NO3 (mg N/L)				0.40	
13	NO2-N (mgN/L)				0.00	
14	NO3-N (mgN/L)	0.12	2.39	0.71	0.39	
15	o-PO4-P (mg P/L)				0.009	
16	SO4 (mg/L)	12.4	7.8	10.2	15.4	
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.3	1.2	0.9	1.3	
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	67	51	45	56	
2	HAR_Total (mgCaCO3/L)	138	75	90	121	
3	Na% (%)	39	34	32	40	
4	RSC (-)	0.3	0.0	0.0	0.1	
5	SAR (-)	1.6	0.9	0.9	1.5	
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Porakudi (CCA20G5)

Division : Hydrology Division, Chennai

Local River : Arasalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	0.882	4.866	21.90	4.777	20.71
2	EC_GEN (µmho/cm)	393		267	522	513
3	pH_FLD (pH units)	7.0		7.0	7.0	7.3
4	pH_GEN (pH units)	7.2		7.0	7.7	8.0
5	TDS (mg/L)	209				
6	Temp (deg C)	26.5		30.0	25.7	25.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0		0.0	0.0	6.3
2	ALK-TOT (mgCaCO3/L)	97		113	254	174
3	Ca (mg/L)	22		21	33	23
4	Cl (mg/L)	48.5		53.4	75.2	71.1
5	CO3 (mg/L)	0.0		0.0	0.0	7.6
6	F (mg/L)	0.60			0.36	0.40
7	HCO3 (mg/L)	118		137	310	197
8	K (mg/L)	5.3			7.8	5.3
9	Mg (mg/L)	11.7		12.1	15.9	21.4
10	Na (mg/L)	37.2			86.1	54.0
11	NH3-N (mg N/L)	0.03				
12	NO2+NO3 (mg N/L)	0.11				
13	NO2-N (mgN/L)	0.01				
14	NO3-N (mgN/L)	0.11				0.47
15	o-PO4-P (mg P/L)	0.068				
16	SO4 (mg/L)	26.5			14.2	18.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.5			0.6	1.6
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	56		52	82	58
2	HAR_Total (mgCaCO3/L)	105		103	148	148
3	Na% (%)	42			53	43
4	RSC (-)	0.0		0.2	2.2	0.6
5	SAR (-)	1.6			3.2	1.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Porakudi (CCA20G5)

Division : Hydrology Division, Chennai

Local River : Arasalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	13.89	12.41	0.000	0.000	18.56
2	EC_GEN (μmho/cm)	467	290			489
3	pH_FLD (pH units)	7.0	7.0			7.0
4	pH_GEN (pH units)	8.1	7.6			8.1
5	TDS (mg/L)		155			270
6	Temp (deg C)	28.8	23.0			25.6
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	11.5	0.0			10.5
2	ALK-TOT (mgCaCO3/L)	145	90			117
3	Ca (mg/L)	23	16			24
4	Cl (mg/L)	69.6	37.6			79.1
5	CO3 (mg/L)	13.8	0.0			12.7
6	F (mg/L)	0.34	0.49			0.36
7	HCO3 (mg/L)	149	110			117
8	K (mg/L)	6.6	2.9			3.8
9	Mg (mg/L)	17.7	6.7			12.6
10	Na (mg/L)	49.6	32.1			59.5
11	NH3-N (mg N/L)					0.04
12	NO2+NO3 (mg N/L)					0.35
13	NO2-N (mgN/L)					0.00
14	NO3-N (mgN/L)	0.52	0.13			0.35
15	o-PO4-P (mg P/L)					0.020
16	SO4 (mg/L)	11.6	8.5			24.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.0	2.3			1.8
	TRACE & TOXIC					
1	As (μg/L)	0.50				
2	Cd (μg/L)					
3	Cr (μg/L)	0.86				
4	Cu (μg/L)	15.42				
5	Ni (μg/L)	4.84				
6	Pb (μg/L)	0.99				
7	Zn (μg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	58	39			59
2	HAR_Total (mgCaCO3/L)	132	67			111
3	Na% (%)	44	50			52
4	RSC (-)	0.3	0.5			0.2
5	SAR (-)	1.9	1.7			2.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Porakudi (CCA20G5)

Division : Hydrology Division, Chennai

Local River : Arasalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	0.000	7.618	0.000	0.000	0.000
2	EC_GEN (µmho/cm)		370			
3	pH_FLD (pH units)		7.0			
4	pH_GEN (pH units)		8.0			
5	TDS (mg/L)		197			
6	Temp (deg C)		26.3			
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		4.2			
2	ALK-TOT (mgCaCO3/L)		72			
3	Ca (mg/L)		22			
4	Cl (mg/L)		56.8			
5	CO3 (mg/L)		5.1			
6	F (mg/L)		0.34			
7	HCO3 (mg/L)		77			
8	K (mg/L)		4.4			
9	Mg (mg/L)		4.9			
10	Na (mg/L)		43.1			
11	NH3-N (mg N/L)		0.03			
12	NO2+NO3 (mg N/L)		0.12			
13	NO2-N (mgN/L)		0.01			
14	NO3-N (mgN/L)		0.11			
15	o-PO4-P (mg P/L)		0.007			
16	SO4 (mg/L)		20.1			
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		2.7			
	TRACE & TOXIC					
1	As (µg/L)		4.78			
2	Cd (µg/L)		0.02			
3	Cr (µg/L)		3.47			
4	Cu (µg/L)		6.15			
5	Ni (µg/L)		0.38			
6	Pb (µg/L)		1.01			
7	Zn (µg/L)		10.70			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		54			
2	HAR_Total (mgCaCO3/L)		74			
3	Na% (%)		54			
4	RSC (-)		0.0			
5	SAR (-)		2.2			
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Porakudi (CCA20G5)

Division : Hydrology Division, Chennai

Local River : Arasalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	0.000	0.000	0.000	0.000
2	EC_GEN (µmho/cm)				
3	pH_FLD (pH units)				
4	pH_GEN (pH units)				
5	TDS (mg/L)				
6	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	Ca (mg/L)				
4	Cl (mg/L)				
5	CO3 (mg/L)				
6	F (mg/L)				
7	HCO3 (mg/L)				
8	K (mg/L)				
9	Mg (mg/L)				
10	Na (mg/L)				
11	NH3-N (mg N/L)				
12	NO2+NO3 (mg N/L)				
13	NO2-N (mgN/L)				
14	NO3-N (mgN/L)				
15	o-PO4-P (mg P/L)				
16	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Porakudi (CCA20G5)

Division : Hydrology Division, Chennai

Local River : Arasalar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	0.020	0.000	0.000	0.000
2	EC_GEN (µmho/cm)	342			
3	pH_FLD (pH units)	8.0			
4	pH_GEN (pH units)	7.8			
5	TDS (mg/L)	191			
6	Temp (deg C)	28.5			
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0			
2	ALK-TOT (mgCaCO3/L)	99			
3	Ca (mg/L)	17			
4	Cl (mg/L)	50.5			
5	CO3 (mg/L)	0.0			
6	F (mg/L)	0.34			
7	HCO3 (mg/L)	121			
8	K (mg/L)	3.3			
9	Mg (mg/L)	11.4			
10	Na (mg/L)	38.4			
11	NH3-N (mg N/L)	0.09			
12	NO2+NO3 (mg N/L)	0.67			
13	NO2-N (mgN/L)	0.00			
14	NO3-N (mgN/L)	0.67			
15	o-PO4-P (mg P/L)	0.004			
16	SO4 (mg/L)	16.0			
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.5			
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	43			
2	HAR_Total (mgCaCO3/L)	91			
3	Na% (%)	47			
4	RSC (-)	0.2			
5	SAR (-)	1.8			
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: PERALAM	Code	: CCA22S5
State	: Tamil Nadu	District	Tiruvarur
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: -	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Vanjiyar
Division	: Hydrology Division, Chennai	Sub-Division	: Cauvery Delta SD, Karaikkal
Drainage Area	: Sq. Km.	Bank	: Right
Latitude	: 10°57'59"	Longitude	: 79°39'41"
Zero of Gauge (m)	: 6.000 (m.s.l)	01/02/1998	
	Opening Date	Closing Date	
Gauge	: 01/02/1998		
Discharge	: 01/02/1999		
Sediment	:		
Water Quality	: 01/09/2005		

Water Quality Datasheet for the period : 2017-2018

Station Name : Peralam (CCA22S5)

Division : Hydrology Division, Chennai

Local River : Vanjiyar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	B	A
	PHYSICAL			
1	Q (cumec)	0.000	0.000	0.000
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Peralam (CCA22S5)

Division : Hydrology Division, Chennai

Local River : Vanjiyar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/09/2017	28/10/2017	03/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.000	1.492	0.309
2	Colour_Cod (-)		Clear	Brown
3	EC_GEN (μmho/cm)		409	272
4	Odour_Code (-)		odour free	odour free
5	pH_FLD (pH units)		7.0	7.0
6	pH_GEN (pH units)		7.1	7.1
7	TDS (mg/L)		217	144
8	Temp (deg C)		25.0	25.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	0.0
2	ALK-TOT (mgCaCO3/L)		101	46
3	Ca (mg/L)		26	8
4	Cl (mg/L)		46.6	54.9
5	CO3 (mg/L)		0.0	0.0
6	F (mg/L)		0.55	0.16
7	Fe (mg/L)			
8	HCO3 (mg/L)		123	57
9	K (mg/L)		5.0	2.6
10	Mg (mg/L)		12.7	3.9
11	Na (mg/L)		36.0	42.0
12	NH3-N (mg N/L)		0.05	0.02
13	NO2+NO3 (mg N/L)		0.24	0.61
14	NO2-N (mgN/L)		0.01	0.01
15	NO3-N (mgN/L)		0.23	0.60
16	o-PO4-P (mg P/L)		0.091	0.136
17	SO4 (mg/L)		25.1	8.8
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		1.2	2.3
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		64	20
2	HAR_Total (mgCaCO3/L)		117	36
3	Na% (%)		39	70
4	RSC (-)		0.0	0.2
5	SAR (-)		1.5	3.0
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Peralam (CCA22S5)

Division : Hydrology Division, Chennai

Local River : Vanjiyar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/12/2017	12/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	1.371	0.363	0.000
2	Colour_Cod (-)	Brown	Light Brown	
3	EC_GEN (µmho/cm)	275	395	
4	Odour_Code (-)	odour free	odour free	
5	pH_FLD (pH units)	8.0	7.0	
6	pH_GEN (pH units)	8.5	7.6	
7	TDS (mg/L)	146	209	
8	Temp (deg C)	25.0	24.5	
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	
2	ALK-TOT (mgCaCO3/L)	59	84	
3	Ca (mg/L)	8	14	
4	Cl (mg/L)	47.0	68.6	
5	CO3 (mg/L)	0.0	0.0	
6	F (mg/L)	0.34	0.29	
7	Fe (mg/L)	0.2		
8	HCO3 (mg/L)	72	103	
9	K (mg/L)	2.4	3.7	
10	Mg (mg/L)	8.8	13.6	
11	Na (mg/L)	36.0	52.6	
12	NH3-N (mg N/L)	0.02	0.02	
13	NO2+NO3 (mg N/L)	0.04	0.44	
14	NO2-N (mgN/L)	0.01	0.01	
15	NO3-N (mgN/L)	0.03	0.43	
16	o-PO4-P (mg P/L)	0.013	0.004	
17	SO4 (mg/L)	8.5	13.7	
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.6	0.9	
	TRACE & TOXIC			
1	As (µg/L)	5.56		
2	Cd (µg/L)	0.05		
3	Cr (µg/L)	4.28		
4	Cu (µg/L)	22.82		
5	Ni (µg/L)	0.44		
6	Pb (µg/L)	0.87		
7	Zn (µg/L)	20.40		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	20	36	
2	HAR_Total (mgCaCO3/L)	57	93	
3	Na% (%)	57	54	
4	RSC (-)	0.1	0.0	
5	SAR (-)	2.1	2.4	
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Peralam (CCA22S5)

Division : Hydrology Division, Chennai

Local River : Vanjiyar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.000	0.000	0.000
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_FLD (pH units)			
6	pH_GEN (pH units)			
7	TDS (mg/L)			
8	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : Peralam (CCA22S5)

Division : Hydrology Division, Chennai

Local River : Vanjiyar

Sub-Division : Cauvery Delta SD, Karaikkal

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	3.236	0.000	0.082
2	EC_GEN (μmho/cm)	4	409	272	338
3	pH_FLD (pH units)	4	8.0	7.0	7.3
4	pH_GEN (pH units)	4	8.5	7.1	7.6
5	TDS (mg/L)	4	217	144	179
6	Temp (deg C)	4	25.0	24.5	24.9
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	4	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	4	101	46	73
3	Ca (mg/L)	4	26	8	14
4	Cl (mg/L)	4	68.6	46.6	54.3
5	CO3 (mg/L)	4	0.0	0.0	0
6	F (mg/L)	4	0.55	0.16	0.34
7	Fe (mg/L)	1	0.2	0.2	0.2
8	HCO3 (mg/L)	4	123	57	89
9	K (mg/L)	4	5.0	2.4	3.4
10	Mg (mg/L)	4	13.6	3.9	9.7
11	Na (mg/L)	4	52.6	36.0	41.6
12	NH3-N (mg N/L)	4	0.05	0.02	0.03
13	NO2+NO3 (mg N/L)	4	0.61	0.04	0.33
14	NO2-N (mgN/L)	4	0.01	0.01	0.01
15	NO3-N (mgN/L)	4	0.60	0.03	0.32
16	o-PO4-P (mg P/L)	4	0.136	0.004	0.061
17	SO4 (mg/L)	4	25.1	8.5	14
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	4	2.3	0.9	1.5
	TRACE & TOXIC				
1	As (μg/L)	1	5.56	5.56	5.56
2	Cd (μg/L)	1	0.05	0.05	0.05
3	Cr (μg/L)	1	4.28	4.28	4.28
4	Cu (μg/L)	1	22.82	22.82	22.82
5	Ni (μg/L)	1	0.44	0.44	0.44
6	Pb (μg/L)	1	0.87	0.87	0.87
7	Zn (μg/L)	1	20.40	20.40	20.4
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	4	64	20	35
2	HAR_Total (mgCaCO3/L)	4	117	36	76
3	Na% (%)	4	70	39	55
4	RSC (-)	4	0.2	0.0	0.1
5	SAR (-)	4	3.0	1.5	2.2
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Peralam (CCA22S5)

Division : Hydrology Division, Chennai

Local River : Vanjiyar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	1.485	1.399	0.604	0.411	0.329
2	EC_GEN (µmho/cm)		370	311	493	424
3	pH_FLD (pH units)		7.0	7.0	7.0	7.0
4	pH_GEN (pH units)		7.7	7.5	7.7	8.3
5	TDS (mg/L)					
6	Temp (deg C)		30.0	27.8	27.0	26.5
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0	0.0	0.0	12.0
2	ALK-TOT (mgCaCO3/L)		154	148	167	134
3	Ca (mg/L)		23	24	26	34
4	Cl (mg/L)		55.3	41.9	62.8	51.3
5	CO3 (mg/L)		0.0	0.0	0.0	14.4
6	F (mg/L)			0.29	0.42	0.46
7	Fe (mg/L)					
8	HCO3 (mg/L)		188	181	203	134
9	K (mg/L)			10.6	6.3	5.6
10	Mg (mg/L)		19.1	13.6	20.9	12.6
11	Na (mg/L)			32.5	53.3	38.8
12	NH3-N (mg N/L)					
13	NO2+NO3 (mg N/L)					
14	NO2-N (mgN/L)					
15	NO3-N (mgN/L)				0.47	4.03
16	o-PO4-P (mg P/L)					
17	SO4 (mg/L)		13.8	11.5	18.5	14.8
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)				1.1	2.0
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		59	61	65	84
2	HAR_Total (mgCaCO3/L)		138	118	153	137
3	Na% (%)			35	42	37
4	RSC (-)		0.3	0.6	0.3	0.0
5	SAR (-)			1.3	1.9	1.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Peralam (CCA22S5)

Division : Hydrology Division, Chennai

Local River : Vanjiyar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	0.221	0.482	0.719	0.422	0.000
2	EC_GEN (µmho/cm)	493	180	250	404	
3	pH_FLD (pH units)	9.0	8.0	7.0	7.0	
4	pH_GEN (pH units)	7.5	8.0	8.1	7.7	
5	TDS (mg/L)	262	95	133	231	
6	Temp (deg C)	26.8	28.5	30.5	30.3	
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	5.0	0.0	
2	ALK-TOT (mgCaCO3/L)	163	64	78	127	
3	Ca (mg/L)	33	18	20	24	
4	Cl (mg/L)	48.9	25.5	38.3	56.9	
5	CO3 (mg/L)	0.0	0.0	6.0	0.0	
6	F (mg/L)	0.90	0.24	0.26	0.41	
7	Fe (mg/L)	0.0	0.0			
8	HCO3 (mg/L)	199	78	82	155	
9	K (mg/L)	6.3	2.8	3.1	5.1	
10	Mg (mg/L)	20.0	5.1	10.0	15.4	
11	Na (mg/L)	36.8	16.0	21.5	39.4	
12	NH3-N (mg N/L)				0.03	
13	NO2+NO3 (mg N/L)				0.40	
14	NO2-N (mgN/L)				0.00	
15	NO3-N (mgN/L)	0.14	1.44	0.65	0.40	
16	o-PO4-P (mg P/L)				0.073	
17	SO4 (mg/L)	19.5	6.4	11.5	17.5	
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.2	1.3	1.2	1.2	
	TRACE & TOXIC					
1	As (µg/L)	14.67	1.23			
2	Cd (µg/L)	0.10	0.18			
3	Cr (µg/L)	1.16	0.72			
4	Cu (µg/L)	31.31	2.14			
5	Hg (µg/L)		0.49			
6	Ni (µg/L)	3.34	9.79			
7	Pb (µg/L)		2.00			
8	Zn (µg/L)	1.35	4.00			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	82	44	50	59	
2	HAR_Total (mgCaCO3/L)	166	65	92	123	
3	Na% (%)	32	34	33	40	
4	RSC (-)	0.1	0.0	0.0	0.2	
5	SAR (-)	1.2	0.9	1.0	1.6	
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Peralam (CCA22S5)

Division : Hydrology Division, Chennai

Local River : Vanjiyar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	0.298	0.550	1.665	0.488	1.909
2	EC_GEN (μmho/cm)	409		422	566	497
3	pH_FLD (pH units)	7.0		7.0	7.0	7.5
4	pH_GEN (pH units)	7.1		7.5	7.8	7.9
5	TDS (mg/L)	217				
6	Temp (deg C)	25.0		27.8	26.1	25.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0		0.0	8.3	0.0
2	ALK-TOT (mgCaCO3/L)	101		174	266	193
3	Ca (mg/L)	26		26	31	25
4	Cl (mg/L)	46.6		53.9	90.3	61.0
5	CO3 (mg/L)	0.0		0.0	10.0	0.0
6	F (mg/L)	0.55			0.59	0.42
7	Fe (mg/L)					
8	HCO3 (mg/L)	123		212	304	236
9	K (mg/L)	5.0			8.7	5.4
10	Mg (mg/L)	12.6		19.4	16.8	21.6
11	Na (mg/L)	36.0			104.3	52.2
12	NH3-N (mg N/L)	0.05				
13	NO2+NO3 (mg N/L)	0.24				
14	NO2-N (mgN/L)	0.01				
15	NO3-N (mgN/L)	0.23				0.48
16	o-PO4-P (mg P/L)	0.091				
17	SO4 (mg/L)	25.1			17.1	16.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.2			1.3	1.5
	TRACE & TOXIC					
1	As (μg/L)					
2	Cd (μg/L)					
3	Cr (μg/L)					
4	Cu (μg/L)					
5	Hg (μg/L)					
6	Ni (μg/L)					
7	Pb (μg/L)					
8	Zn (μg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	64		66	79	61
2	HAR_Total (mgCaCO3/L)	117		147	148	152
3	Na% (%)	39			59	42
4	RSC (-)	0.0		0.6	2.4	0.9
5	SAR (-)	1.5			3.8	1.8
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Peralam (CCA22S5)

Division : Hydrology Division, Chennai

Local River : Vanjiyar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	0.819	0.737	0.000	0.277	1.044
2	EC_GEN (µmho/cm)	397	361		464	447
3	pH_FLD (pH units)	6.7	7.0		7.7	7.0
4	pH_GEN (pH units)	8.6	7.7		7.8	7.9
5	TDS (mg/L)		193		249	251
6	Temp (deg C)	25.3	23.0		26.5	26.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	9.6	0.0		3.3	4.7
2	ALK-TOT (mgCaCO3/L)	121	120		128	113
3	Ca (mg/L)	22	20		28	23
4	Cl (mg/L)	56.1	39.1		71.4	75.0
5	CO3 (mg/L)	11.5	0.0		4.0	5.6
6	F (mg/L)	0.32	0.65		0.31	0.41
7	Fe (mg/L)	0.0			0.0	
8	HCO3 (mg/L)	124	147		148	126
9	K (mg/L)	6.7	2.8		4.4	3.1
10	Mg (mg/L)	14.3	9.5		13.3	12.6
11	Na (mg/L)	39.3	37.6		53.7	52.2
12	NH3-N (mg N/L)				0.05	0.04
13	NO2+NO3 (mg N/L)				2.28	0.45
14	NO2-N (mgN/L)				0.00	0.00
15	NO3-N (mgN/L)	0.38	0.21		1.68	0.45
16	o-PO4-P (mg P/L)				0.006	0.008
17	SO4 (mg/L)	9.4	10.0		15.8	16.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.7	2.3		1.7	1.5
	TRACE & TOXIC					
1	As (µg/L)	0.76				
2	Cd (µg/L)				0.33	
3	Cr (µg/L)	0.90			52.06	
4	Cu (µg/L)	5.31			3.87	
5	Hg (µg/L)					
6	Ni (µg/L)	5.35			0.12	
7	Pb (µg/L)	0.88			0.07	
8	Zn (µg/L)	7.40			3.00	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	56	49		69	57
2	HAR_Total (mgCaCO3/L)	116	89		124	110
3	Na% (%)	41	49		48	50
4	RSC (-)	0.1	0.6		0.1	0.3
5	SAR (-)	1.6	1.8		2.1	2.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Peralam (CCA22S5)

Division : Hydrology Division, Chennai

Local River : Vanjiyar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	0.000	0.511	0.000	0.000	0.000
2	EC_GEN (µmho/cm)		314			
3	pH_FLD (pH units)		7.3			
4	pH_GEN (pH units)		7.7			
5	TDS (mg/L)		166			
6	Temp (deg C)		24.8			
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0			
2	ALK-TOT (mgCaCO3/L)		63			
3	Ca (mg/L)		10			
4	Cl (mg/L)		56.8			
5	CO3 (mg/L)		0.0			
6	F (mg/L)		0.26			
7	Fe (mg/L)		0.2			
8	HCO3 (mg/L)		77			
9	K (mg/L)		2.9			
10	Mg (mg/L)		8.8			
11	Na (mg/L)		43.5			
12	NH3-N (mg N/L)		0.02			
13	NO2+NO3 (mg N/L)		0.36			
14	NO2-N (mgN/L)		0.01			
15	NO3-N (mgN/L)		0.35			
16	o-PO4-P (mg P/L)		0.051			
17	SO4 (mg/L)		10.4			
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		1.6			
	TRACE & TOXIC					
1	As (µg/L)		5.56			
2	Cd (µg/L)		0.05			
3	Cr (µg/L)		4.28			
4	Cu (µg/L)		22.82			
5	Hg (µg/L)					
6	Ni (µg/L)		0.44			
7	Pb (µg/L)		0.87			
8	Zn (µg/L)		20.40			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		25			
2	HAR_Total (mgCaCO3/L)		62			
3	Na% (%)		60			
4	RSC (-)		0.1			
5	SAR (-)		2.5			
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Peralam (CCA22S5)

Division : Hydrology Division, Chennai

Local River : Vanjiyar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	0.000	0.000	0.000	0.000
2	EC_GEN (μmho/cm)				
3	pH_FLD (pH units)				
4	pH_GEN (pH units)				
5	TDS (mg/L)				
6	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	Ca (mg/L)				
4	Cl (mg/L)				
5	CO3 (mg/L)				
6	F (mg/L)				
7	Fe (mg/L)				
8	HCO3 (mg/L)				
9	K (mg/L)				
10	Mg (mg/L)				
11	Na (mg/L)				
12	NH3-N (mg N/L)				
13	NO2+NO3 (mg N/L)				
14	NO2-N (mgN/L)				
15	NO3-N (mgN/L)				
16	o-PO4-P (mg P/L)				
17	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
	TRACE & TOXIC				
1	As (μg/L)				
2	Cd (μg/L)				
3	Cr (μg/L)				
4	Cu (μg/L)				
5	Hg (μg/L)				
6	Ni (μg/L)				
7	Pb (μg/L)				
8	Zn (μg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Peralam (CCA22S5)

Division : Hydrology Division, Chennai

Local River : Vanjiyar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	0.208	0.000	0.000	0.000
2	EC_GEN (µmho/cm)	280			
3	pH_FLD (pH units)	7.0			
4	pH_GEN (pH units)	8.0			
5	TDS (mg/L)	157			
6	Temp (deg C)	26.0			
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0			
2	ALK-TOT (mgCaCO3/L)	89			
3	Ca (mg/L)	15			
4	Cl (mg/L)	44.9			
5	CO3 (mg/L)	0.0			
6	F (mg/L)	0.32			
7	Fe (mg/L)				
8	HCO3 (mg/L)	109			
9	K (mg/L)	4.1			
10	Mg (mg/L)	9.7			
11	Na (mg/L)	33.6			
12	NH3-N (mg N/L)	0.08			
13	NO2+NO3 (mg N/L)	1.50			
14	NO2-N (mgN/L)	0.01			
15	NO3-N (mgN/L)	1.49			
16	o-PO4-P (mg P/L)	0.028			
17	SO4 (mg/L)	11.9			
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.1			
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Hg (µg/L)				
6	Ni (µg/L)				
7	Pb (µg/L)				
8	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	37			
2	HAR_Total (mgCaCO3/L)	77			
3	Na% (%)	47			
4	RSC (-)	0.3			
5	SAR (-)	1.7			
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: THENGUDI	Code	: CCA31N6
State	: Tamil Nadu	District	Tiruvarur
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: -	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Thirumalairajanar
Division	: Hydrology Division,	Sub-Division	: Cauvery Delta SD, Karaikkal
Drainage Area	: Sq. Km.	Bank	: Right
Latitude	: 10°55'00"	Longitude	: 79°38'20"
Zero of Gauge (m)	: 5.000 (m.s.l)	06/03/1997	
	Opening Date	Closing Date	
Gauge	: 06/03/1997		
Discharge	: 02/07/1997		
Sediment	: 07/11/2003		
Water Quality	: 01/09/2005		

Water Quality Datasheet for the period : 2017-2018

Station Name : Thengudi (CCA31N6)

Division : Hydrology Division, Chennai

Local River : Thirumalairajanar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.000	0.000	0.000
2	Colour_Cod (-)			
3	EC_FLD (μmho/cm)			
4	EC_GEN (μmho/cm)			
5	Odour_Code (-)			
6	pH_FLD (pH units)			
7	pH_GEN (pH units)			
8	TDS (mg/L)			
9	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	DO (mg/L)			
3	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Thengudi (CCA31N6)

Division : Hydrology Division, Chennai

Local River : Thirumalairajanar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/09/2017	16/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.000	0.167	8.239
2	Colour_Cod (-)		Clear	Brown
3	EC_FLD (μmho/cm)		580	680
4	EC_GEN (μmho/cm)		456	544
5	Odour_Code (-)		odour free	odour free
6	pH_FLD (pH units)		7.4	7.9
7	pH_GEN (pH units)		7.3	7.2
8	TDS (mg/L)		242	289
9	Temp (deg C)		27.5	26.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	0.0
2	ALK-TOT (mgCaCO3/L)		105	109
3	Ca (mg/L)		27	21
4	Cl (mg/L)		52.4	90.2
5	CO3 (mg/L)		0.0	0.0
6	F (mg/L)		0.52	0.41
7	Fe (mg/L)			
8	HCO3 (mg/L)		128	134
9	K (mg/L)		5.6	4.6
10	Mg (mg/L)		12.7	16.5
11	Na (mg/L)		42.0	69.0
12	NH3-N (mg N/L)		0.03	0.03
13	NO2+NO3 (mg N/L)		0.48	0.30
14	NO2-N (mgN/L)		0.01	0.01
15	NO3-N (mgN/L)		0.47	0.29
16	o-PO4-P (mg P/L)		0.094	0.006
17	SO4 (mg/L)		27.7	20.3
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		1.3	2.4
2	DO (mg/L)		4.0	4.5
3	DO_SAT% (%)		50	55
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		68	52
2	HAR_Total (mgCaCO3/L)		121	121
3	Na% (%)		42	54
4	RSC (-)		0.0	0.0
5	SAR (-)		1.7	2.7
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Thengudi (CCA31N6)

Division : Hydrology Division, Chennai

Local River : Thirumalairajanar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	16.66	0.319	0.331
2	Colour_Cod (-)	Brown	Light Brown	Light Brown
3	EC_FLD (μmho/cm)	740	730	680
4	EC_GEN (μmho/cm)	390	726	714
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.9	7.9	7.8
7	pH_GEN (pH units)	8.8	8.1	8.0
8	TDS (mg/L)	207	389	378
9	Temp (deg C)	26.5	24.5	24.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	8.4	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	80	160	136
3	Ca (mg/L)	8	25	34
4	Cl (mg/L)	62.7	127.4	124.2
5	CO3 (mg/L)	10.1	0.0	0.0
6	F (mg/L)	0.46	0.43	0.48
7	Fe (mg/L)	0.0		
8	HCO3 (mg/L)	77	195	166
9	K (mg/L)	3.4	4.8	4.9
10	Mg (mg/L)	12.7	21.9	19.5
11	Na (mg/L)	48.0	96.3	88.1
12	NH3-N (mg N/L)	0.02	0.02	0.06
13	NO2+NO3 (mg N/L)	0.16	0.17	0.27
14	NO2-N (mgN/L)	0.01	0.01	0.01
15	NO3-N (mgN/L)	0.15	0.17	0.26
16	o-PO4-P (mg P/L)	0.004	0.002	0.010
17	SO4 (mg/L)	12.3	31.4	30.8
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.9	2.0	1.3
2	DO (mg/L)	4.8	4.5	4.7
3	DO_SAT% (%)	59	54	55
	TRACE & TOXIC			
1	As (μg/L)	5.58		
2	Cd (μg/L)	0.02		
3	Cr (μg/L)	5.24		
4	Cu (μg/L)	2.50		
5	Ni (μg/L)	1.61		
6	Pb (μg/L)	0.78		
7	Zn (μg/L)	19.90		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	20	62	84
2	HAR_Total (mgCaCO3/L)	73	153	165
3	Na% (%)	58	57	53
4	RSC (-)	0.2	0.2	0.0
5	SAR (-)	2.5	3.4	3.0
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Thengudi (CCA31N6)

Division : Hydrology Division, Chennai

Local River : Thirumalairajanar

River Water Analysis

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.000	0.000	0.000
2	Colour_Cod (-)			
3	EC_FLD (μmho/cm)			
4	EC_GEN (μmho/cm)			
5	Odour_Code (-)			
6	pH_FLD (pH units)			
7	pH_GEN (pH units)			
8	TDS (mg/L)			
9	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	Ca (mg/L)			
4	Cl (mg/L)			
5	CO3 (mg/L)			
6	F (mg/L)			
7	Fe (mg/L)			
8	HCO3 (mg/L)			
9	K (mg/L)			
10	Mg (mg/L)			
11	Na (mg/L)			
12	NH3-N (mg N/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	DO (mg/L)			
3	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : Thengudi (CCA31N6)

Division : Hydrology Division, Chennai

Local River : Thirumalairajanar

Sub-Division : Cauvery Delta SD, Karaikkal

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	27.66	0.000	1.152
2	EC_FLD (μmho/cm)	5	740	580	682
3	EC_GEN (μmho/cm)	5	726	390	566
4	pH_FLD (pH units)	5	7.9	7.4	7.8
5	pH_GEN (pH units)	5	8.8	7.2	7.9
6	TDS (mg/L)	5	389	207	301
7	Temp (deg C)	5	27.5	24.0	25.7
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	5	8.4	0.0	1.7
2	ALK-TOT (mgCaCO3/L)	5	160	80	118
3	Ca (mg/L)	5	34	8	23
4	Cl (mg/L)	5	127.4	52.4	91.4
5	CO3 (mg/L)	5	10.1	0.0	2
6	F (mg/L)	5	0.52	0.41	0.46
7	Fe (mg/L)	1	0.0	0.0	0
8	HCO3 (mg/L)	5	195	77	140
9	K (mg/L)	5	5.6	3.4	4.7
10	Mg (mg/L)	5	21.9	12.7	16.6
11	Na (mg/L)	5	96.3	42.0	68.7
12	NH3-N (mg N/L)	5	0.06	0.02	0.03
13	NO2+NO3 (mg N/L)	5	0.48	0.16	0.28
14	NO2-N (mgN/L)	5	0.01	0.01	0.01
15	NO3-N (mgN/L)	5	0.47	0.15	0.27
16	o-PO4-P (mg P/L)	5	0.094	0.002	0.023
17	SO4 (mg/L)	5	31.4	12.3	24.5
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	5	2.4	1.3	1.8
2	DO (mg/L)	5	4.8	4.0	4.5
3	DO_SAT% (%)	5	59	50	55
	TRACE & TOXIC				
1	As (μg/L)	1	5.58	5.58	5.58
2	Cd (μg/L)	1	0.02	0.02	0.02
3	Cr (μg/L)	1	5.24	5.24	5.24
4	Cu (μg/L)	1	2.50	2.50	2.5
5	Ni (μg/L)	1	1.61	1.61	1.61
6	Pb (μg/L)	1	0.78	0.78	0.78
7	Zn (μg/L)	1	19.90	19.90	19.9
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	5	84	20	57
2	HAR_Total (mgCaCO3/L)	5	165	73	127
3	Na% (%)	5	58	42	53
4	RSC (-)	5	0.2	0.0	0.1
5	SAR (-)	5	3.4	1.7	2.7
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Thengudi (CCA31N6)

Division : Hydrology Division, Chennai

Local River : Thirumalairajanar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	3.816	5.981	0.841	1.061	3.389
2	EC_FLD (μmho/cm)	349	492	364	442	546
3	EC_GEN (μmho/cm)	329	501	419	489	480
4	pH_FLD (pH units)	7.5	7.2	7.1	7.4	7.9
5	pH_GEN (pH units)	7.4	7.6	7.8	7.8	7.9
6	TDS (mg/L)					
7	Temp (deg C)	29.5	29.3	28.7	29.0	27.8
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	120	173	163	188	171
3	Ca (mg/L)	29	32	23	25	27
4	Cl (mg/L)	31.8	63.3	62.2	65.4	55.6
5	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
6	F (mg/L)			0.58	0.49	0.47
7	Fe (mg/L)					
8	HCO3 (mg/L)	147	211	198	229	209
9	K (mg/L)			7.6	5.8	5.0
10	Mg (mg/L)	11.5	20.6	12.6	19.9	25.1
11	Na (mg/L)	38.2		66.0	54.9	43.0
12	NH3-N (mg N/L)					
13	NO2+NO3 (mg N/L)					
14	NO2-N (mgN/L)					
15	NO3-N (mgN/L)				0.39	2.10
16	o-PO4-P (mg P/L)					
17	SO4 (mg/L)	14.6	18.9	19.2	19.2	14.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.6	1.5	2.3	1.3	1.4
2	DO (mg/L)	7.3	7.5	5.2	4.5	4.6
3	DO_SAT% (%)	97	97	68	59	58
	TRACE & TOXIC					
1	As (μg/L)					
2	Cd (μg/L)					
3	Cr (μg/L)					
4	Cu (μg/L)					
5	Ni (μg/L)					
6	Pb (μg/L)					
7	Zn (μg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	71	79	57	63	68
2	HAR_Total (mgCaCO3/L)	119	165	110	146	173
3	Na% (%)			56	44	34
4	RSC (-)	0.1	0.2	1.1	0.8	0.1
5	SAR (-)	1.5		2.9	2.0	1.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Thengudi (CCA31N6)

Division : Hydrology Division, Chennai

Local River : Thirumalairajanar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	1.079	1.540	0.750	0.452	1.178
2	EC_FLD (μmho/cm)	595	392	475	637	510
3	EC_GEN (μmho/cm)	447	324	392	590	439
4	pH_FLD (pH units)	8.2	8.3	8.2	8.1	7.9
5	pH_GEN (pH units)	7.7	7.5	7.6	7.8	7.4
6	TDS (mg/L)	240	172	210	320	240
7	Temp (deg C)	26.0	29.5	28.8	29.3	27.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	141	86	133	168	127
3	Ca (mg/L)	27	23	25	33	29
4	Cl (mg/L)	95.9	50.1	42.5	91.8	55.4
5	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
6	F (mg/L)	1.13	0.28	0.35	0.54	0.35
7	Fe (mg/L)	0.0	0.0			
8	HCO3 (mg/L)	172	105	163	205	155
9	K (mg/L)	3.9	3.4	4.2	3.5	4.7
10	Mg (mg/L)	13.3	6.7	14.6	15.7	12.2
11	Na (mg/L)	79.9	34.5	32.7	69.8	41.8
12	NH3-N (mg N/L)				0.05	0.07
13	NO2+NO3 (mg N/L)				0.68	0.60
14	NO2-N (mgN/L)				0.00	0.01
15	NO3-N (mgN/L)	0.17	2.33	0.76	0.68	0.58
16	o-PO4-P (mg P/L)				0.075	0.066
17	SO4 (mg/L)	24.8	15.9	18.9	22.7	20.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.6	1.3	1.9	1.9	2.7
2	DO (mg/L)	8.1	5.2	5.5	5.8	4.5
3	DO_SAT% (%)	100	69	71	77	56
	TRACE & TOXIC					
1	As (μg/L)	3.95	0.44			
2	Cd (μg/L)	0.11	0.26			
3	Cr (μg/L)	2.90	0.79			
4	Cu (μg/L)	29.37	2.39			
5	Ni (μg/L)	2.61	11.24			
6	Pb (μg/L)	0.13	2.46			
7	Zn (μg/L)	3.77	6.00			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	67	58	62	81	72
2	HAR_Total (mgCaCO3/L)	122	87	122	147	123
3	Na% (%)	59	44	37	50	42
4	RSC (-)	0.4	0.1	0.2	0.4	0.1
5	SAR (-)	3.2	1.6	1.3	2.5	1.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Thengudi (CCA31N6)

Division : Hydrology Division, Chennai

Local River : Thirumalairajanar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	0.033	11.36	20.01	12.94	24.51
2	EC_FLD (μmho/cm)	580	456	360	338	464
3	EC_GEN (μmho/cm)	456	544	638	628	523
4	pH_FLD (pH units)	7.4	7.9	7.1	7.2	7.8
5	pH_GEN (pH units)	7.3	7.6	7.5	8.0	7.8
6	TDS (mg/L)	242				
7	Temp (deg C)	27.5	27.0	27.0	26.7	26.1
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	105	161	198	284	235
3	Ca (mg/L)	27	31	32	27	30
4	Cl (mg/L)	52.4	55.3	74.8	95.4	66.2
5	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
6	F (mg/L)	0.52			0.42	0.41
7	Fe (mg/L)				0.0	
8	HCO3 (mg/L)	128	197	241	347	286
9	K (mg/L)	5.6			7.1	5.1
10	Mg (mg/L)	12.6	21.7	23.8	22.4	22.1
11	Na (mg/L)	42.0	25.6		111.7	55.9
12	NH3-N (mg N/L)	0.03				
13	NO2+NO3 (mg N/L)	0.48				
14	NO2-N (mgN/L)	0.01				
15	NO3-N (mgN/L)	0.47				0.45
16	o-PO4-P (mg P/L)	0.094				
17	SO4 (mg/L)	27.7	19.4		21.9	17.5
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.3	2.3	1.3	1.3	1.1
2	DO (mg/L)	4.0	5.3	6.2	5.4	5.0
3	DO_SAT% (%)	50	66	77	67	61
	TRACE & TOXIC					
1	As (μg/L)					
2	Cd (μg/L)				0.02	
3	Cr (μg/L)				0.22	
4	Cu (μg/L)				6.73	
5	Ni (μg/L)				11.39	
6	Pb (μg/L)				0.01	
7	Zn (μg/L)				11.20	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	68	77	80	66	75
2	HAR_Total (mgCaCO3/L)	121	167	179	159	167
3	Na% (%)	42			59	41
4	RSC (-)	0.0	0.0	0.4	2.5	1.4
5	SAR (-)	1.7	0.9		3.9	1.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Thengudi (CCA31N6)

Division : Hydrology Division, Chennai

Local River : Thirumalairajanar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	10.16	11.13	1.439	3.727	8.147
2	EC_FLD (μmho/cm)	533	566	774		664
3	EC_GEN (μmho/cm)	489	526	579	587	453
4	pH_FLD (pH units)	8.3	8.3	8.1	8.3	8.0
5	pH_GEN (pH units)	7.8	7.7	7.8	7.9	7.8
6	TDS (mg/L)		280	310	320	250
7	Temp (deg C)	25.1	24.7	27.1	25.5	26.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	1.2	3.5
2	ALK-TOT (mgCaCO3/L)	144	163	110	158	122
3	Ca (mg/L)	18	34	15	32	23
4	Cl (mg/L)	64.4	71.4	107.0	90.9	73.2
5	CO3 (mg/L)	0.0	0.0	0.0	1.5	4.2
6	F (mg/L)	0.34	0.71	0.41	0.36	0.41
7	Fe (mg/L)	0.1			0.0	
8	HCO3 (mg/L)	176	199	134	189	140
9	K (mg/L)	5.8	4.7	3.2	4.0	3.9
10	Mg (mg/L)	19.0	13.3	20.6	16.9	13.5
11	Na (mg/L)	48.8	61.0	72.8	67.2	53.1
12	NH3-N (mg N/L)				0.08	0.06
13	NO2+NO3 (mg N/L)				2.80	0.30
14	NO2-N (mgN/L)				0.01	0.00
15	NO3-N (mgN/L)	0.62	0.59	4.52	2.19	0.30
16	o-PO4-P (mg P/L)				0.010	0.003
17	SO4 (mg/L)	12.6	16.4	22.1	18.9	18.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.6	2.0	2.5	1.5	1.4
2	DO (mg/L)	4.5	7.5	5.3	4.9	4.8
3	DO_SAT% (%)	55	89	67	60	59
	TRACE & TOXIC					
1	As (μg/L)	0.51				
2	Cd (μg/L)				0.43	
3	Cr (μg/L)	1.69			1.90	
4	Cu (μg/L)	8.04			5.28	
5	Ni (μg/L)	3.59			5.83	
6	Pb (μg/L)	0.89			0.28	
7	Zn (μg/L)				7.10	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	46	85	38	81	58
2	HAR_Total (mgCaCO3/L)	125	141	123	152	115
3	Na% (%)	45	48	56	49	49
4	RSC (-)	0.4	0.5	0.0	0.2	0.3
5	SAR (-)	1.9	2.2	2.9	2.4	2.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Thengudi (CCA31N6)

Division : Hydrology Division, Chennai

Local River : Thirumalairajanar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	1.801	6.387	0.336	0.109	0.133
2	EC_FLD (μmho/cm)	643	708	517	520	302
3	EC_GEN (μmho/cm)	704	594	631	739	686
4	pH_FLD (pH units)	8.0	7.9	7.3	7.4	7.1
5	pH_GEN (pH units)	8.0	8.0	8.2	7.7	8.3
6	TDS (mg/L)	385	316			
7	Temp (deg C)	26.2	25.3	26.8	27.5	28.8
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	2.1	5.2	0.0	33.2
2	ALK-TOT (mgCaCO3/L)	141	121	242	229	296
3	Ca (mg/L)	31	22	29	47	44
4	Cl (mg/L)	127.9	101.1	73.4	102.9	102.3
5	CO3 (mg/L)	0.0	2.5	6.3	0.0	40.0
6	F (mg/L)	0.41	0.44			0.43
7	Fe (mg/L)		0.0			
8	HCO3 (mg/L)	172	143	282	280	279
9	K (mg/L)	3.9	4.4			6.3
10	Mg (mg/L)	13.6	17.6	21.4	28.2	19.4
11	Na (mg/L)	97.4	75.4			104.5
12	NH3-N (mg N/L)	0.08	0.03			
13	NO2+NO3 (mg N/L)	0.72	0.22			
14	NO2-N (mgN/L)	0.00	0.01			
15	NO3-N (mgN/L)	0.71	0.22			
16	o-PO4-P (mg P/L)	0.043	0.006			
17	SO4 (mg/L)	23.6	23.7	22.0		25.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.1	1.9	1.6	2.6	1.1
2	DO (mg/L)	4.1	4.6	6.1	7.3	5.0
3	DO_SAT% (%)	50	56	76	92	63
	TRACE & TOXIC					
1	As (μg/L)		5.58			
2	Cd (μg/L)		0.02			
3	Cr (μg/L)		5.24			
4	Cu (μg/L)		2.50			
5	Ni (μg/L)		1.61			
6	Pb (μg/L)		0.78			
7	Zn (μg/L)		19.90			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	77	55	73	118	110
2	HAR_Total (mgCaCO3/L)	134	128	163	236	191
3	Na% (%)	60	56			53
4	RSC (-)	0.2	0.1	1.6	0.0	2.1
5	SAR (-)	3.7	2.9			3.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Thengudi (CCA31N6)

Division : Hydrology Division, Chennai

Local River : Thirumalairajanar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	0.182	0.226	0.000	0.010
2	EC_FLD (µmho/cm)	608	410		661
3	EC_GEN (µmho/cm)	725	700		630
4	pH_FLD (pH units)	7.7	8.1		8.1
5	pH_GEN (pH units)	8.1	7.5		8.4
6	TDS (mg/L)				334
7	Temp (deg C)	26.5	26.0		27.0
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0		9.3
2	ALK-TOT (mgCaCO3/L)	248	202		98
3	Ca (mg/L)	55	34		10
4	Cl (mg/L)	110.8	89.3		116.3
5	CO3 (mg/L)	0.0	0.0		11.2
6	F (mg/L)	0.51	0.38		0.42
7	Fe (mg/L)				
8	HCO3 (mg/L)	303	246		97
9	K (mg/L)	6.8	14.4		4.8
10	Mg (mg/L)	18.5	27.2		17.4
11	Na (mg/L)	82.7	65.4		83.4
12	NH3-N (mg N/L)				
13	NO2+NO3 (mg N/L)				
14	NO2-N (mgN/L)				
15	NO3-N (mgN/L)	0.64	1.45		6.12
16	o-PO4-P (mg P/L)				
17	SO4 (mg/L)	20.6	25.0		28.7
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	0.6	2.0		1.8
2	DO (mg/L)	2.1	2.2		5.2
3	DO_SAT% (%)	26	27		65
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	136	84		25
2	HAR_Total (mgCaCO3/L)	213	198		98
3	Na% (%)	45	40		64
4	RSC (-)	0.7	0.1		0.0
5	SAR (-)	2.5	2.0		3.7
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Thengudi (CCA31N6)

Division : Hydrology Division, Chennai

Local River : Thirumalairajanar

River Water

Sub-Division : Cauvery Delta SD, Karaikkal

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	0.191	1.280	0.000	0.000
2	EC_FLD (μmho/cm)	706	665		
3	EC_GEN (μmho/cm)	717	675		
4	pH_FLD (pH units)	8.1	8.1		
5	pH_GEN (pH units)	8.0	7.8		
6	TDS (mg/L)	383	361		
7	Temp (deg C)	28.0	27.8		
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	9.3	4.7		
2	ALK-TOT (mgCaCO3/L)	171	157		
3	Ca (mg/L)	33	34		
4	Cl (mg/L)	121.3	107.0		
5	CO3 (mg/L)	11.2	5.6		
6	F (mg/L)	0.54	0.52		
7	Fe (mg/L)				
8	HCO3 (mg/L)	186	180		
9	K (mg/L)	3.5	4.4		
10	Mg (mg/L)	19.2	21.4		
11	Na (mg/L)	90.2	78.5		
12	NH3-N (mg N/L)	0.12	0.04		
13	NO2+NO3 (mg N/L)	1.07	0.74		
14	NO2-N (mgN/L)	0.00	0.00		
15	NO3-N (mgN/L)	1.07	0.73		
16	o-PO4-P (mg P/L)	0.010	0.095		
17	SO4 (mg/L)	28.7	37.5		
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.4	1.8		
2	DO (mg/L)	4.7	4.8		
3	DO SAT% (%)	60	61		
	TRACE & TOXIC				
1	As (μg/L)				
2	Cd (μg/L)				
3	Cr (μg/L)				
4	Cu (μg/L)				
5	Ni (μg/L)				
6	Pb (μg/L)				
7	Zn (μg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	82	84		
2	HAR_Total (mgCaCO3/L)	162	173		
3	Na% (%)	54	49		
4	RSC (-)	0.2	0.0		
5	SAR (-)	3.1	2.6		
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: MUSIRI	Code	: CC000G4
State	: Tamil Nadu	District	Thiruchirapalli
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: -	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Cauvery
Division	: SR Division, Coimbatore	Sub-Division	: Lower Cauvery SD, Trichy
Drainage Area	: 66243 Sq. Km.	Bank	: Left
Latitude	: 10°56'36"	Longitude	: 78°26'06"
Zero of Gauge (m)	: 82.000 (m.s.l)	26/02/1971	
	Opening Date	Closing Date	
Gauge	: 26/02/1971		
Discharge	: 01/06/1972		
Sediment	: 31/03/1973		
Water Quality	: 01/06/1978		

Water Quality Datasheet for the period : 2017-2018

Station Name : MUSIRI (CC000G4)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/06/2017	01/07/2017	10/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	54.59
2	Colour_Cod (-)			Brown
3	EC_FLD (μmho/cm)			615
4	EC_GEN (μmho/cm)			615
5	Odour_Code (-)			odour free
6	pH_FLD (pH units)			8.2
7	pH_GEN (pH units)			8.0
8	TDS (mg/L)			355
9	Temp (deg C)			26.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			0.0
2	ALK-TOT (mgCaCO3/L)			160
3	B (mg/L)			0.08
4	Ca (mg/L)			23
5	Cl (mg/L)			79.2
6	CO3 (mg/L)			0.0
7	F (mg/L)			0.32
8	Fe (mg/L)			0.0
9	HCO3 (mg/L)			195
10	K (mg/L)			6.7
11	Mg (mg/L)			31.3
12	Na (mg/L)			60.8
13	NH3-N (mg N/L)			0.05
14	NO2+NO3 (mg N/L)			0.30
15	NO2-N (mgN/L)			0.19
16	NO3-N (mgN/L)			0.11
17	o-PO4-P (mg P/L)			0.060
18	SiO2 (mg/L)			12.0
19	SO4 (mg/L)			40.7
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			2.6
2	COD (mg/L)			13.3
3	DO (mg/L)			7.1
4	DO_SAT% (%)			88
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			59
2	HAR_Total (mgCaCO3/L)			189
3	Na% (%)			40
4	RSC (-)			0.0
5	SAR (-)			1.9
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : MUSIRI (CC000G4)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.222	6.870	80.21
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)	603	592	465
4	EC_GEN (μmho/cm)	603	592	456
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.2	8.1	7.7
7	pH_GEN (pH units)	7.9	8.4	7.7
8	TDS (mg/L)	338	338	268
9	Temp (deg C)	26.0	26.5	28.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	22.3	0.0
2	ALK-TOT (mgCaCO3/L)	143	135	131
3	B (mg/L)	0.10	0.10	0.09
4	Ca (mg/L)	34	29	40
5	Cl (mg/L)	87.9	90.8	48.6
6	CO3 (mg/L)	0.0	26.9	0.0
7	F (mg/L)	0.43	0.39	0.29
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	175	109	160
10	K (mg/L)	5.9	6.1	5.4
11	Mg (mg/L)	18.7	21.4	12.1
12	Na (mg/L)	63.0	68.5	35.9
13	NH3-N (mg N/L)	0.04	0.12	0.14
14	NO2+NO3 (mg N/L)	0.69	0.39	0.39
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	0.69	0.39	0.39
17	o-PO4-P (mg P/L)	0.010	0.010	0.070
18	SiO2 (mg/L)	8.9	7.0	10.2
19	SO4 (mg/L)	31.3	37.9	29.4
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	2.1	1.9	1.2
2	COD (mg/L)	13.3	13.2	5.4
3	DO (mg/L)	6.5	6.8	6.6
4	DO_SAT% (%)	80	84	84
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	85	73	100
2	HAR_Total (mgCaCO3/L)	163	162	150
3	Na% (%)	45	47	33
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	2.2	2.3	1.3
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : MUSIRI (CC000G4)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	215.0	221.5	12.63
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)	451	488	580
4	EC_GEN (μmho/cm)	451	488	580
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.1	8.5	8.3
7	pH_GEN (pH units)	7.4	8.5	8.5
8	TDS (mg/L)	255	281	332
9	Temp (deg C)	28.0	27.0	23.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	17.2	17.3
2	ALK-TOT (mgCaCO3/L)	151	168	178
3	B (mg/L)	0.18	0.10	0.10
4	Ca (mg/L)	33	24	29
5	Cl (mg/L)	48.9	56.8	73.6
6	CO3 (mg/L)	0.0	20.7	20.8
7	F (mg/L)	0.34	0.31	0.45
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	184	163	175
10	K (mg/L)	5.2	5.2	5.2
11	Mg (mg/L)	21.0	29.5	26.3
12	Na (mg/L)	33.4	39.6	55.2
13	NH3-N (mg N/L)	0.20	0.14	0.00
14	NO2+NO3 (mg N/L)	1.64	2.40	0.00
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	1.64	2.40	0.00
17	o-PO4-P (mg P/L)	0.040	0.050	0.000
18	SiO2 (mg/L)	11.5	10.7	11.9
19	SO4 (mg/L)	21.9	21.2	33.3
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.6	2.3	2.5
2	COD (mg/L)	6.7	11.8	9.5
3	DO (mg/L)	6.8	6.4	8.7
4	DO_SAT% (%)	87	80	102
	TRACE & TOXIC			
1	As (μg/L)	4.1		
2	Cd (μg/L)	0.1		
3	Cr (μg/L)	1.3		
4	Cu (μg/L)	6.7		
5	Ni (μg/L)	6.4		
6	Pb (μg/L)	1.3		
7	Zn (μg/L)	1.0		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	82	59	72
2	HAR_Total (mgCaCO3/L)	170	182	182
3	Na% (%)	29	32	39
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	1.1	1.3	1.8
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : MUSIRI (CC000G4)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/03/2018	02/04/2018	17/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	4.012	3.510	55.25
2	Colour_Cod (-)	Clear	Clear	Light Brown
3	EC_FLD (μmho/cm)	565	683	806
4	EC_GEN (μmho/cm)	614	683	806
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	8.1	8.2	8.0
7	pH_GEN (pH units)	7.9	8.3	8.0
8	TDS (mg/L)	350	391	459
9	Temp (deg C)	26.5	30.0	28.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	25.9	0.0
2	ALK-TOT (mgCaCO3/L)	174	174	161
3	B (mg/L)	0.17	0.23	0.03
4	Ca (mg/L)	27	29	27
5	Cl (mg/L)	79.2	103.7	148.5
6	CO3 (mg/L)	0.0	31.3	0.0
7	F (mg/L)	0.58	0.51	0.37
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	212	148	196
10	K (mg/L)	5.8	7.2	8.7
11	Mg (mg/L)	28.2	29.2	22.4
12	Na (mg/L)	60.7	77.7	110.0
13	NH3-N (mg N/L)	0.00	0.01	0.01
14	NO2+NO3 (mg N/L)	0.00	0.22	0.54
15	NO2-N (mgN/L)	0.00	0.04	0.28
16	NO3-N (mgN/L)	0.00	0.18	0.26
17	o-PO4-P (mg P/L)	0.000	0.000	0.050
18	SiO2 (mg/L)	12.1	14.5	9.6
19	SO4 (mg/L)	40.2	36.9	43.4
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.6	2.2	1.2
2	COD (mg/L)	3.8	15.1	6.8
3	DO (mg/L)	7.1	6.6	5.8
4	DO_SAT% (%)	87	87	74
	TRACE & TOXIC			
1	As (μg/L)		0.5	
2	Cd (μg/L)		0.2	
3	Cr (μg/L)		0.9	
4	Cu (μg/L)		1.1	
5	Ni (μg/L)		1.5	
6	Pb (μg/L)		1.3	
7	Zn (μg/L)		28.8	
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	68	72	68
2	HAR_Total (mgCaCO3/L)	186	194	161
3	Na% (%)	41	46	58
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	1.9	2.4	3.8
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : MUSIRI (CC000G4)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : Lower Cauvery SD, Trichy

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	586.0	0.000	69.65
2	EC_FLD (μmho/cm)	10	806	451	585
3	EC_GEN (μmho/cm)	10	806	451	589
4	pH_FLD (pH units)	10	8.5	7.1	7.9
5	pH_GEN (pH units)	10	8.5	7.4	8.1
6	TDS (mg/L)	10	459	255	337
7	Temp (deg C)	10	30.0	23.0	27
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	10	25.9	0.0	8.3
2	ALK-TOT (mgCaCO3/L)	10	178	131	157
3	B (mg/L)	10	0.23	0.03	0.12
4	Ca (mg/L)	10	40	23	30
5	Cl (mg/L)	10	148.5	48.6	81.7
6	CO3 (mg/L)	10	31.3	0.0	10
7	F (mg/L)	10	0.58	0.29	0.4
8	Fe (mg/L)	10	0.0	0.0	0
9	HCO3 (mg/L)	10	212	109	172
10	K (mg/L)	10	8.7	5.2	6.1
11	Mg (mg/L)	10	31.3	12.1	24
12	Na (mg/L)	10	110.0	33.4	60.5
13	NH3-N (mg N/L)	10	0.20	0.00	0.07
14	NO2+NO3 (mg N/L)	10	2.40	0.00	0.66
15	NO2-N (mgN/L)	10	0.28	0.00	0.05
16	NO3-N (mgN/L)	10	2.40	0.00	0.61
17	o-PO4-P (mg P/L)	10	0.070	0.000	0.029
18	SiO2 (mg/L)	10	14.5	7.0	10.8
19	SO4 (mg/L)	10	43.4	21.2	33.6
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	10	2.6	1.2	1.9
2	COD (mg/L)	10	15.1	3.8	9.9
3	DO (mg/L)	10	8.7	5.8	6.8
4	DO_SAT% (%)	10	102	74	85
	TRACE & TOXIC				
1	As (μg/L)	2	4.1	0.5	2.3
2	Cd (μg/L)	2	0.2	0.1	0.1
3	Cr (μg/L)	2	1.3	0.9	1.1
4	Cu (μg/L)	2	6.7	1.1	3.9
5	Ni (μg/L)	2	6.4	1.5	3.9
6	Pb (μg/L)	2	1.3	1.3	1.3
7	Zn (μg/L)	2	28.8	1.0	14.9
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	10	100	59	74
2	HAR_Total (mgCaCO3/L)	10	194	150	174
3	Na% (%)	10	58	29	41
4	RSC (-)	10	0.0	0.0	0
5	SAR (-)	10	3.8	1.1	2
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUSIRI (CC000G4)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	355.9	459.8	359.4	193.8	400.2
2	EC_FLD (µmho/cm)	468	529	512	458	358
3	EC_GEN (µmho/cm)	498	514	489	434	348
4	pH_FLD (pH units)	8.2	8.2	8.2	7.7	7.8
5	pH_GEN (pH units)	8.1	8.3	8.1	8.2	7.8
6	TDS (mg/L)					
7	Temp (deg C)	26.2	26.8	26.5	28.4	28.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	6.4	4.4	4.0	6.4	0.0
2	ALK-TOT (mgCaCO3/L)	136	159	147	152	141
3	B (mg/L)	0.27	0.26	0.22	0.03	
4	Ca (mg/L)	27	29	28	29	30
5	Cl (mg/L)	62.1	59.9	68.0	67.1	55.4
6	CO3 (mg/L)	7.7	5.3	4.8	7.7	0.0
7	F (mg/L)	0.33	0.47	0.33	0.49	0.49
8	Fe (mg/L)	0.1	0.1	0.1	0.0	
9	HCO3 (mg/L)	151	183	170	170	172
10	K (mg/L)	4.1	4.2	4.4	4.7	3.7
11	Mg (mg/L)	15.9	18.3	18.3	17.9	16.5
12	Na (mg/L)	53.1	52.6	51.7	47.0	36.8
13	NH3-N (mg N/L)	0.06	0.07	0.11	0.09	
14	NO2+NO3 (mg N/L)	3.52	2.08			
15	NO2-N (mgN/L)	0.11	0.01			
16	NO3-N (mgN/L)	3.41	2.08	0.86	4.51	0.51
17	o-PO4-P (mg P/L)		0.010	0.066	0.158	
18	P-Tot (mgP/L)	0.018				
19	SiO2 (mg/L)	20.5	20.7	21.7	30.8	
20	SO4 (mg/L)	25.1	22.5	36.4	20.2	14.8
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.0	0.9	1.6	1.0	1.6
2	COD (mg/L)					
3	DO (mg/L)	7.0	7.1	7.1	7.1	7.1
4	DO_SAT% (%)	87	89	88	91	91
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	68	71	69	73	75
2	HAR_Total (mgCaCO3/L)	135	148	145	147	144
3	Na% (%)	41	42	39	40	34
4	RSC (-)	0.1	0.3	0.1	0.1	0.1
5	SAR (-)	1.9	1.9	1.7	1.7	1.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUSIRI (CC000G4)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	103.6	340.8	212.8	189.8	62.23
2	EC_FLD (µmho/cm)	488	239	525	510	614
3	EC_GEN (µmho/cm)	480	226	531	522	610
4	pH_FLD (pH units)	8.2	7.9	8.1	8.1	7.9
5	pH_GEN (pH units)	8.3	7.9	8.1	8.1	7.9
6	TDS (mg/L)			284	302	352
7	Temp (deg C)	27.9	28.5	27.5	28.2	27.2
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	13.7	0.0	13.0	3.8	2.2
2	ALK-TOT (mgCaCO3/L)	157	74	150	154	162
3	B (mg/L)				0.12	0.11
4	Ca (mg/L)	34	18	32	29	26
5	Cl (mg/L)	71.2	25.2	75.7	70.0	88.5
6	CO3 (mg/L)	16.5	0.0	15.6	4.6	2.7
7	F (mg/L)	0.24	0.19	0.37	0.51	0.46
8	Fe (mg/L)		0.2		0.0	0.0
9	HCO3 (mg/L)	157	90	151	179	192
10	K (mg/L)	4.5	2.3	5.3	5.9	6.4
11	Mg (mg/L)	15.4	11.3	21.0	24.4	25.8
12	Na (mg/L)	53.7	13.9	55.5	51.1	67.5
13	NH3-N (mg N/L)		0.19	0.15	0.16	0.13
14	NO2+NO3 (mg N/L)				1.44	0.54
15	NO2-N (mgN/L)				0.01	0.00
16	NO3-N (mgN/L)	0.19	0.44	0.78	1.42	0.54
17	o-PO4-P (mg P/L)				0.020	0.042
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				16.4	14.9
20	SO4 (mg/L)	22.2	11.6	27.7	27.7	33.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.3	2.4	2.6	2.1	3.0
2	COD (mg/L)		6.2	9.5	9.5	16.6
3	DO (mg/L)	7.0	6.8	6.5	6.5	6.5
4	DO_SAT% (%)	89	87	82	83	81
	TRACE & TOXIC					
1	As (µg/L)	22.6	0.3			
2	Cd (µg/L)	0.1	0.0			
3	Cr (µg/L)	5.2	5.8			
4	Cu (µg/L)	10.5	3.0			
5	Hg (µg/L)		0.2			
6	Ni (µg/L)	3.4	10.4			
7	Pb (µg/L)	2.3	4.8			
8	Zn (µg/L)	1.2	22.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	84	44	81	72	65
2	HAR_Total (mgCaCO3/L)	148	91	169	174	173
3	Na% (%)	43	25	38	37	44
4	RSC (-)	0.2	0.0	0.0	0.0	0.0
5	SAR (-)	1.9	0.6	1.7	1.7	2.2
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUSIRI (CC000G4)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	12.34	579.8	351.2	141.3	227.5
2	EC_FLD (μmho/cm)	603	534	653	612	597
3	EC_GEN (μmho/cm)	603	566	562	603	553
4	pH_FLD (pH units)	7.8	8.0	8.1	8.6	7.9
5	pH_GEN (pH units)	8.1	8.4	7.9	8.1	8.3
6	TDS (mg/L)	344				
7	Temp (deg C)	26.2	25.5	25.1	27.1	28.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	7.4	14.1	12.0	7.0	17.9
2	ALK-TOT (mgCaCO3/L)	146	169	198	201	184
3	B (mg/L)	0.09	0.27	0.14	0.13	0.21
4	Ca (mg/L)	29	34	40	40	42
5	Cl (mg/L)	85.9	64.5	75.5	82.4	82.6
6	CO3 (mg/L)	9.0	17.0	14.4	8.4	21.6
7	F (mg/L)	0.38	0.37	0.59	0.64	0.61
8	Fe (mg/L)	0.0	0.1	0.1	0.1	0.0
9	HCO3 (mg/L)	160	171	213	228	181
10	K (mg/L)	6.2	4.6	7.4	5.1	5.6
11	Mg (mg/L)	23.8	19.8	22.8	23.9	20.9
12	Na (mg/L)	64.1	54.0	57.8	62.0	61.5
13	NH3-N (mg N/L)	0.07	0.05		0.05	0.00
14	NO2+NO3 (mg N/L)	0.46	2.18			
15	NO2-N (mgN/L)	0.06	0.02			
16	NO3-N (mgN/L)	0.40	2.17	0.48	1.75	4.22
17	o-PO4-P (mg P/L)	0.027		0.010	0.041	0.134
18	P-Tot (mgP/L)		0.035			
19	SiO2 (mg/L)	9.3	19.7	2.3	23.5	21.8
20	SO4 (mg/L)	36.6	26.6	32.8	45.7	31.8
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.2	1.4	1.3	1.0	0.9
2	COD (mg/L)	13.3				
3	DO (mg/L)	6.8	7.1	7.1	7.0	7.3
4	DO_SAT% (%)	84	86	86	88	93
	TRACE & TOXIC					
1	As (μg/L)					
2	Cd (μg/L)					
3	Cr (μg/L)					
4	Cu (μg/L)					
5	Hg (μg/L)					
6	Ni (μg/L)					
7	Pb (μg/L)					
8	Zn (μg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	72	85	100	100	105
2	HAR_Total (mgCaCO3/L)	171	167	195	200	192
3	Na% (%)	44	38	38	39	40
4	RSC (-)	0.0	0.1	0.1	0.2	0.1
5	SAR (-)	2.1	1.7	1.8	1.9	1.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUSIRI (CC000G4)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	292.0	29.61	181.7	121.3	149.8
2	EC_FLD (μmho/cm)	430	557	421	537	614
3	EC_GEN (μmho/cm)	426	566	430	537	614
4	pH_FLD (pH units)	7.9	8.0	8.2	7.9	8.1
5	pH_GEN (pH units)	8.0	8.0	8.2	8.0	8.2
6	TDS (mg/L)				303	354
7	Temp (deg C)	26.5	25.8	26.0	24.1	26.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	6.5	0.0	2.0	0.0	5.7
2	ALK-TOT (mgCaCO3/L)	174	180	160	168	193
3	B (mg/L)				0.06	0.12
4	Ca (mg/L)	36	39	34	31	29
5	Cl (mg/L)	62.2	79.5	44.4	67.5	75.5
6	CO3 (mg/L)	7.9	0.0	2.4	0.0	6.9
7	F (mg/L)	0.31	0.23	0.36	0.38	0.56
8	Fe (mg/L)	0.1			0.1	0.0
9	HCO3 (mg/L)	196	220	190	205	222
10	K (mg/L)	4.9	5.0	4.5	6.5	6.8
11	Mg (mg/L)	19.9	22.1	20.2	26.6	32.3
12	Na (mg/L)	45.1	54.2	31.7	50.8	60.6
13	NH3-N (mg N/L)		0.05	0.28	0.18	0.34
14	NO2+NO3 (mg N/L)				1.87	2.99
15	NO2-N (mgN/L)				0.00	0.05
16	NO3-N (mgN/L)	0.48	0.43	0.09	2.55	2.94
17	o-PO4-P (mg P/L)				0.000	0.060
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				15.7	18.1
20	SO4 (mg/L)	25.4	26.5	25.4	28.8	35.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.0	1.1	2.8	1.5	2.0
2	COD (mg/L)		7.3	7.0	6.9	11.0
3	DO (mg/L)	7.1	6.5	6.7	6.6	6.4
4	DO_SAT% (%)	88	80	83	79	79
	TRACE & TOXIC					
1	As (μg/L)	0.6				
2	Cd (μg/L)				0.7	
3	Cr (μg/L)	4.6			13.4	
4	Cu (μg/L)	13.9			4.6	
5	Hg (μg/L)					
6	Ni (μg/L)				2.4	
7	Pb (μg/L)	1.6			4.9	
8	Zn (μg/L)	14.9			2.1	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	91	97	86	76	73
2	HAR_Total (mgCaCO3/L)	174	189	170	187	208
3	Na% (%)	35	38	28	36	37
4	RSC (-)	0.1	0.0	0.1	0.0	0.0
5	SAR (-)	1.5	1.7	1.1	1.6	1.8
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUSIRI (CC000G4)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	22.70	132.3	10.67	8.091	20.65
2	EC_FLD (µmho/cm)	523	496	836	575	601
3	EC_GEN (µmho/cm)	535	494	851	575	524
4	pH_FLD (pH units)	7.9	7.9	8.3	8.4	8.3
5	pH_GEN (pH units)	7.8	8.0	8.5	8.4	8.3
6	TDS (mg/L)	311	284			
7	Temp (deg C)	23.3	26.5	25.5	27.2	27.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	8.6	18.8	15.9	9.3
2	ALK-TOT (mgCaCO3/L)	153	157	195	189	166
3	B (mg/L)	0.08	0.12	0.34	0.13	0.18
4	Ca (mg/L)	33	31	38	36	30
5	Cl (mg/L)	75.0	57.0	124.6	103.0	91.7
6	CO3 (mg/L)	0.0	10.4	22.7	19.2	11.2
7	F (mg/L)	0.56	0.35	0.64	0.51	0.53
8	Fe (mg/L)	0.0	0.0	0.1	0.1	0.1
9	HCO3 (mg/L)	187	171	192	192	180
10	K (mg/L)	5.2	5.2	6.4	5.4	5.0
11	Mg (mg/L)	21.1	22.2	24.6	24.6	22.4
12	Na (mg/L)	54.4	41.0	97.9	85.1	67.6
13	NH3-N (mg N/L)	0.12	0.12	0.05	0.11	0.01
14	NO2+NO3 (mg N/L)	0.47	1.11	1.47		
15	NO2-N (mgN/L)	0.02	0.00	0.01		
16	NO3-N (mgN/L)	0.45	1.11	1.45	0.27	1.27
17	o-PO4-P (mg P/L)	0.035	0.040		0.017	0.017
18	P-Tot (mgP/L)			0.025		
19	SiO2 (mg/L)	13.6	11.1	23.2	21.8	30.1
20	SO4 (mg/L)	26.2	26.4	52.7	53.3	43.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.3	1.9	0.6	1.3	1.2
2	COD (mg/L)	10.5	8.4			
3	DO (mg/L)	6.3	7.1	7.0	7.0	7.1
4	DO_SAT% (%)	74	88	85	88	90
	TRACE & TOXIC					
1	As (µg/L)	2.2	4.1	5.0	20.6	
2	Cd (µg/L)	0.1	0.1	0.7		
3	Cr (µg/L)	1.4	1.3		2.2	
4	Cu (µg/L)	3.4	6.7	1.0	2.4	
5	Hg (µg/L)					
6	Ni (µg/L)	3.9	6.4		9.3	
7	Pb (µg/L)	0.7	1.3	2.3		
8	Zn (µg/L)	6.7	1.0	9.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	82	78	96	89	75
2	HAR_Total (mgCaCO3/L)	170	171	199	192	168
3	Na% (%)	40	33	51	48	46
4	RSC (-)	0.0	0.0	0.1	0.0	0.1
5	SAR (-)	1.8	1.4	3.0	2.7	2.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUSIRI (CC000G4)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	25.39	39.75	1.439	3.648
2	EC_FLD (μmho/cm)	605	417	603	520
3	EC_GEN (μmho/cm)	605	417	602	520
4	pH_FLD (pH units)	8.5	8.3	8.0	8.0
5	pH_GEN (pH units)	8.4	8.1	8.0	8.0
6	TDS (mg/L)				276
7	Temp (deg C)	28.7	28.7	27.3	28.2
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	26.6	5.8	0.0	6.4
2	ALK-TOT (mgCaCO3/L)	199	143	195	168
3	B (mg/L)	0.06			
4	Ca (mg/L)	45	26	35	32
5	Cl (mg/L)	102.7	71.4	85.9	66.7
6	CO3 (mg/L)	32.0	7.0	0.0	7.8
7	F (mg/L)	0.43	0.48	0.60	0.41
8	Fe (mg/L)	0.0	0.0	0.0	0.0
9	HCO3 (mg/L)	177	160	238	189
10	K (mg/L)	5.7	5.3	5.5	4.9
11	Mg (mg/L)	16.2	18.1	26.3	24.7
12	Na (mg/L)	74.4	54.1	62.8	51.1
13	NH3-N (mg N/L)	0.06		0.23	0.71
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)	1.03	0.19	0.12	0.37
17	o-PO4-P (mg P/L)	0.000			
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	29.4			
20	SO4 (mg/L)	30.1	23.7	24.2	24.9
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.1	1.1	1.6	1.7
2	COD (mg/L)			8.5	7.8
3	DO (mg/L)	6.6	7.1	6.3	6.5
4	DO_SAT% (%)	85	92	79	83
	TRACE & TOXIC				
1	As (μg/L)	0.8	0.9	0.6	3.3
2	Cd (μg/L)	6.9	0.2	0.0	0.0
3	Cr (μg/L)	2.8	4.0	0.4	0.8
4	Cu (μg/L)	5.0	3.0	0.8	2.2
5	Hg (μg/L)			0.3	
6	Ni (μg/L)		2.4	8.7	8.6
7	Pb (μg/L)	1.2	4.7	1.3	1.4
8	Zn (μg/L)	14.9	325.0	0.6	5.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	114	66	88	79
2	HAR_Total (mgCaCO3/L)	181	141	198	182
3	Na% (%)	46	44	40	37
4	RSC (-)	0.4	0.1	0.0	0.0
5	SAR (-)	2.4	2.0	1.9	1.7
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUSIRI (CC000G4)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	49.04	10.09		20.92
2	EC_FLD (µmho/cm)	446	683		685
3	EC_GEN (µmho/cm)	521	683		701
4	pH_FLD (pH units)	8.0	8.2		8.1
5	pH_GEN (pH units)	8.1	8.3		8.1
6	TDS (mg/L)	301	389		400
7	Temp (deg C)	26.7	28.0		28.3
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	7.7	0.0		8.6
2	ALK-TOT (mgCaCO3/L)	150	189		169
3	B (mg/L)	0.04	0.15		0.14
4	Ca (mg/L)	18	37		28
5	Cl (mg/L)	71.5	93.4		110.5
6	CO3 (mg/L)	9.2	0.0		10.4
7	F (mg/L)	0.43	0.47		0.48
8	Fe (mg/L)	0.0	0.0		0.0
9	HCO3 (mg/L)	164	231		185
10	K (mg/L)	6.1	7.3		7.2
11	Mg (mg/L)	24.8	29.2		26.6
12	Na (mg/L)	54.3	70.6		82.8
13	NH3-N (mg N/L)	0.24	0.05		0.01
14	NO2+NO3 (mg N/L)	0.80	3.92		0.25
15	NO2-N (mgN/L)	0.00	0.00		0.11
16	NO3-N (mgN/L)	0.80	3.92		0.15
17	o-PO4-P (mg P/L)	0.030	0.033		0.017
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	18.7	18.3		12.1
20	SO4 (mg/L)	26.8	35.2		40.2
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	3.4	1.7		1.6
2	COD (mg/L)	11.7	12.0		8.6
3	DO (mg/L)	7.0	6.6		6.5
4	DO_SAT% (%)	87	84		83
	TRACE & TOXIC				
1	As (µg/L)				0.5
2	Cd (µg/L)				0.2
3	Cr (µg/L)				0.9
4	Cu (µg/L)				1.1
5	Hg (µg/L)				
6	Ni (µg/L)				1.5
7	Pb (µg/L)				1.3
8	Zn (µg/L)				28.8
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	45	93		69
2	HAR_Total (mgCaCO3/L)	149	215		180
3	Na% (%)	44	41		48
4	RSC (-)	0.1	0.0		0.0
5	SAR (-)	2.0	2.1		2.7
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: NALLAMARANPATTY	Code	: CCD00D5
State	: Tamil Nadu	District	Karur
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Amaravathi	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Amaravathi
Division	: SR Division, Coimbatore	Sub-Division	: Lower Cauvery SD, Trichy
Drainage Area	: 9080 Sq. Km.	Bank	: Right
Latitude	: 10°52'51"	Longitude	: 77°59'05"
Zero of Gauge (m)	: 129.000 (m.s.l) 126.000 (m.s.l)	01/07/1977 01/06/2010	- 31/05/2010
	Opening Date	Closing Date	
Gauge	: 12/07/1977		
Discharge	: 23/01/1978		
Sediment	: 10/12/1978		
Water Quality	: 16/08/1978		

Water Quality Datasheet for the period : 2017-2018

Station Name : NALLAMARANPATTY (CCD00D5)

Division : SR Division, Coimbatore

Local River : Amaravathi

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/06/2017	31/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	16.57	1.143
2	Colour_Cod (-)		Clear	Clear
3	EC_FLD (μmho/cm)		113	195
4	EC_GEN (μmho/cm)		159	195
5	Odour_Code (-)		odour free	odour free
6	pH_FLD (pH units)		8.2	8.1
7	pH_GEN (pH units)		8.2	8.1
8	TDS (mg/L)		90	116
9	Temp (deg C)		26.0	27.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	0.0
2	ALK-TOT (mgCaCO3/L)		38	53
3	B (mg/L)		0.05	0.02
4	Ca (mg/L)		13	17
5	Cl (mg/L)		18.9	18.9
6	CO3 (mg/L)		0.0	0.0
7	F (mg/L)		0.25	0.28
8	Fe (mg/L)		0.1	0.1
9	HCO3 (mg/L)		46	65
10	K (mg/L)		5.4	5.3
11	Mg (mg/L)		3.8	5.7
12	Na (mg/L)		12.0	14.0
13	NH3-N (mg N/L)		0.40	0.14
14	NO2+NO3 (mg N/L)		0.21	1.05
15	NO2-N (mgN/L)		0.01	0.20
16	NO3-N (mgN/L)		0.20	0.85
17	o-PO4-P (mg P/L)		0.090	0.070
18	SiO2 (mg/L)		18.5	15.1
19	SO4 (mg/L)		14.5	17.7
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		3.6	3.8
2	COD (mg/L)		30.8	23.5
3	DO (mg/L)		5.7	6.0
4	DO_SAT% (%)		70	75
	TRACE & TOXIC			
1	As (μg/L)			2.0
2	Cd (μg/L)			0.0
3	Cr (μg/L)			2.0
4	Cu (μg/L)			6.0
5	Ni (μg/L)			
6	Pb (μg/L)			0.0
7	Zn (μg/L)			3.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		31	43
2	HAR_Total (mgCaCO3/L)		47	67
3	Na% (%)		33	29
4	RSC (-)		0.0	0.0
5	SAR (-)		0.8	0.7
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : NALLAMARANPATTY (CCD00D5)

Division : SR Division, Coimbatore

Local River : Amaravathi

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	04/09/2017	07/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	4.774	19.89	1.870
2	Colour_Cod (-)	Brown	Clear	Clear
3	EC_FLD (μmho/cm)	80	307	350
4	EC_GEN (μmho/cm)	80	307	350
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.6	7.0	8.0
7	pH_GEN (pH units)	7.6	7.6	8.0
8	TDS (mg/L)	46	175	205
9	Temp (deg C)	27.0	28.0	28.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	26	71	79
3	B (mg/L)	0.00	0.06	0.10
4	Ca (mg/L)	9	23	29
5	Cl (mg/L)	7.5	42.6	57.9
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.18	0.27	0.25
8	Fe (mg/L)	0.1	0.0	0.0
9	HCO3 (mg/L)	32	87	96
10	K (mg/L)	1.8	5.6	4.7
11	Mg (mg/L)	1.9	9.3	8.4
12	Na (mg/L)	4.8	27.7	32.1
13	NH3-N (mg N/L)	0.05	0.07	0.08
14	NO2+NO3 (mg N/L)	0.31	0.46	0.39
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	0.31	0.46	0.39
17	o-PO4-P (mg P/L)	0.060	0.070	0.040
18	SiO2 (mg/L)	5.6	9.2	9.3
19	SO4 (mg/L)	3.1	24.7	17.5
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	2.7	3.8	2.2
2	COD (mg/L)	6.5	12.3	9.2
3	DO (mg/L)	6.9	5.8	8.1
4	DO_SAT% (%)	87	73	104
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	23	58	73
2	HAR_Total (mgCaCO3/L)	31	96	108
3	Na% (%)	24	37	38
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.4	1.2	1.3
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : NALLAMARANPATTY (CCD00D5)

Division : SR Division, Coimbatore

Local River : Amaravathi

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/12/2017	15/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	4.588	2.572	Dry Bed
2	Colour_Cod (-)	Clear	Clear	
3	EC_FLD (μmho/cm)	377	419	
4	EC_GEN (μmho/cm)	377	419	
5	Odour_Code (-)	odour free	odour free	
6	pH_FLD (pH units)	8.0	8.0	
7	pH_GEN (pH units)	8.0	8.0	
8	TDS (mg/L)	214	239	
9	Temp (deg C)	27.0	26.0	
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	
2	ALK-TOT (mgCaCO3/L)	112	130	
3	B (mg/L)	0.13	0.12	
4	Ca (mg/L)	38	32	
5	Cl (mg/L)	39.1	45.3	
6	CO3 (mg/L)	0.0	0.0	
7	F (mg/L)	0.38	0.86	
8	Fe (mg/L)	0.0	0.0	
9	HCO3 (mg/L)	137	159	
10	K (mg/L)	4.3	3.7	
11	Mg (mg/L)	10.5	15.6	
12	Na (mg/L)	27.5	33.0	
13	NH3-N (mg N/L)	0.10	0.03	
14	NO2+NO3 (mg N/L)	1.79	0.00	
15	NO2-N (mgN/L)	0.00	0.00	
16	NO3-N (mgN/L)	1.79	0.00	
17	o-PO4-P (mg P/L)	0.010	0.000	
18	SiO2 (mg/L)	12.0	14.2	
19	SO4 (mg/L)	21.2	29.6	
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	3.0	3.8	
2	COD (mg/L)	8.9	11.6	
3	DO (mg/L)	8.9	8.9	
4	DO_SAT% (%)	112	110	
	TRACE & TOXIC			
1	As (μg/L)	3.9		
2	Cd (μg/L)	0.1		
3	Cr (μg/L)	1.2		
4	Cu (μg/L)	6.3		
5	Ni (μg/L)	5.3		
6	Pb (μg/L)	1.9		
7	Zn (μg/L)	7.4		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	94	80	
2	HAR_Total (mgCaCO3/L)	138	145	
3	Na% (%)	30	33	
4	RSC (-)	0.0	0.0	
5	SAR (-)	1.0	1.2	
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : NALLAMARANPATTY (CCD00D5)

Division : SR Division, Coimbatore

Local River : Amaravathi

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_FLD (μmho/cm)			
4	EC_GEN (μmho/cm)			
5	Odour_Code (-)			
6	pH_FLD (pH units)			
7	pH_GEN (pH units)			
8	TDS (mg/L)			
9	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : NALLAMARANPATTY (CCD00D5)

Division : SR Division, Coimbatore

Local River : Amaravathi

Sub-Division : Lower Cauvery SD, Trichy

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	78.02	0.000	1.185
2	EC_FLD (μmho/cm)	7	419	80	263
3	EC_GEN (μmho/cm)	7	419	80	270
4	pH_FLD (pH units)	7	8.2	7.0	7.8
5	pH_GEN (pH units)	7	8.2	7.6	7.9
6	TDS (mg/L)	7	239	46	155
7	Temp (deg C)	7	28.5	26.0	27.1
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	7	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	7	130	26	73
3	B (mg/L)	7	0.13	0.00	0.07
4	Ca (mg/L)	7	38	9	23
5	Cl (mg/L)	7	57.9	7.5	32.9
6	CO3 (mg/L)	7	0.0	0.0	0
7	F (mg/L)	7	0.86	0.18	0.35
8	Fe (mg/L)	7	0.1	0.0	0
9	HCO3 (mg/L)	7	159	32	89
10	K (mg/L)	7	5.6	1.8	4.4
11	Mg (mg/L)	7	15.6	1.9	7.9
12	Na (mg/L)	7	33.0	4.8	21.6
13	NH3-N (mg N/L)	7	0.40	0.03	0.12
14	NO2+NO3 (mg N/L)	7	1.79	0.00	0.6
15	NO2-N (mgN/L)	7	0.20	0.00	0.03
16	NO3-N (mgN/L)	7	1.79	0.00	0.57
17	o-PO4-P (mg P/L)	7	0.090	0.000	0.049
18	SiO2 (mg/L)	7	18.5	5.6	12
19	SO4 (mg/L)	7	29.6	3.1	18.3
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	7	3.8	2.2	3.3
2	COD (mg/L)	7	30.8	6.5	14.7
3	DO (mg/L)	7	8.9	5.7	7.2
4	DO_SAT% (%)	7	112	70	90
	TRACE & TOXIC				
1	As (μg/L)	2	3.9	2.0	3
2	Cd (μg/L)	2	0.1	0.0	0
3	Cr (μg/L)	2	2.0	1.2	1.6
4	Cu (μg/L)	2	6.3	6.0	6.2
5	Ni (μg/L)	1	5.3	5.3	5.3
6	Pb (μg/L)	2	1.9	0.0	0.9
7	Zn (μg/L)	2	7.4	3.0	5.2
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	7	94	23	57
2	HAR_Total (mgCaCO3/L)	7	145	31	90
3	Na% (%)	7	38	24	32
4	RSC (-)	7	0.0	0.0	0
5	SAR (-)	7	1.3	0.4	1
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NALLAMARANPATTY (CCD00D5)

Division : SR Division, Coimbatore

Local River : Amaravathi

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	0.000	1.375	0.522	0.000	0.000
2	EC_FLD (μmho/cm)		385			
3	EC_GEN (μmho/cm)		271	262		
4	pH_FLD (pH units)		8.0			
5	pH_GEN (pH units)		8.7	8.3		
6	TDS (mg/L)					
7	Temp (deg C)		26.0	26.0		
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		13.1	0.0		
2	ALK-TOT (mgCaCO3/L)		105	102		
3	B (mg/L)		0.26	0.16		
4	Ca (mg/L)		19	22		
5	Cl (mg/L)		21.1	19.0		
6	CO3 (mg/L)		15.8	0.0		
7	F (mg/L)		0.47	0.33		
8	Fe (mg/L)		0.1	0.3		
9	HCO3 (mg/L)		97	125		
10	K (mg/L)		3.5	2.3		
11	Mg (mg/L)		8.8	11.6		
12	Na (mg/L)		27.2	22.0		
13	NH3-N (mg N/L)		0.06	0.13		
14	NO2+NO3 (mg N/L)		0.77			
15	NO2-N (mgN/L)		0.02			
16	NO3-N (mgN/L)		0.76	0.06		
17	o-PO4-P (mg P/L)		0.010	0.050		
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)		19.8	17.2		
20	SO4 (mg/L)		13.3	10.2		
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		1.8			
2	COD (mg/L)					
3	DO (mg/L)		9.0			
4	DO_SAT% (%)		111			
	TRACE & TOXIC					
1	As (μg/L)					
2	Cd (μg/L)					
3	Cr (μg/L)					
4	Cu (μg/L)					
5	Ni (μg/L)					
6	Pb (μg/L)					
7	Zn (μg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		48	56		
2	HAR_Total (mgCaCO3/L)		85	104		
3	Na% (%)		40	31		
4	RSC (-)		0.4	0.0		
5	SAR (-)		1.3	0.9		
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NALLAMARANPATTY (CCD00D5)

Division : SR Division, Coimbatore

Local River : Amaravathi

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	0.000	1.243	1.202	4.216	57.48
2	EC_FLD (µmho/cm)		214	108	234	233
3	EC_GEN (µmho/cm)		214	146	234	233
4	pH_FLD (pH units)		7.9	7.7	7.9	7.4
5	pH_GEN (pH units)		7.9	7.7	7.9	7.4
6	TDS (mg/L)			77	136	132
7	Temp (deg C)		27.5	27.5	29.0	30.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)		86	54	84	64
3	B (mg/L)				0.00	0.09
4	Ca (mg/L)		27	14	25	19
5	Cl (mg/L)		20.1	15.0	19.2	25.5
6	CO3 (mg/L)		0.0	0.0	0.0	0.0
7	F (mg/L)		0.32	0.20		0.31
8	Fe (mg/L)				0.0	0.0
9	HCO3 (mg/L)		105	66	103	78
10	K (mg/L)		3.5	2.2	3.8	4.8
11	Mg (mg/L)		6.7	6.5	7.7	7.6
12	Na (mg/L)		14.0	8.5	13.8	19.5
13	NH3-N (mg N/L)		0.11	0.06	0.28	0.24
14	NO2+NO3 (mg N/L)				1.26	1.43
15	NO2-N (mgN/L)				0.01	0.00
16	NO3-N (mgN/L)		0.01	0.41	1.25	1.43
17	o-PO4-P (mg P/L)				0.000	0.060
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				16.5	9.6
20	SO4 (mg/L)		14.3	6.3	9.8	21.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		4.3	1.4	3.7	
2	COD (mg/L)		17.8	2.2	14.5	24.5
3	DO (mg/L)		8.8	8.8	8.9	
4	DO_SAT% (%)		111	111	116	
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		67	35	63	47
2	HAR_Total (mgCaCO3/L)		95	62	95	79
3	Na% (%)		24	22	23	33
4	RSC (-)		0.0	0.0	0.0	0.0
5	SAR (-)		0.6	0.5	0.6	1.0
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NALLAMARANPATTY (CCD00D5)

Division : SR Division, Coimbatore

Local River : Amaravathi

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	8.475	12.75	14.58	8.412	37.28
2	EC_FLD (μmho/cm)	174	599	593		483
3	EC_GEN (μmho/cm)	185	603	563	491	569
4	pH_FLD (pH units)	7.7	7.8	8.1		8.3
5	pH_GEN (pH units)	7.8	8.3	8.3	8.5	8.3
6	TDS (mg/L)	107				
7	Temp (deg C)	27.0	24.7	21.7	22.8	24.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	6.7	14.6	21.7	15.9
2	ALK-TOT (mgCaCO3/L)	47	136	166	192	164
3	B (mg/L)	0.03	0.28	0.03	0.14	0.12
4	Ca (mg/L)	15	35	34	38	38
5	Cl (mg/L)	21.9	96.3	85.6	53.0	122.2
6	CO3 (mg/L)	0.0	8.1	17.6	26.1	19.2
7	F (mg/L)	0.24	0.52	0.80	0.64	0.64
8	Fe (mg/L)	0.1	0.1	0.1	0.1	0.0
9	HCO3 (mg/L)	58	150	167	181	161
10	K (mg/L)	4.5	4.6	3.7	4.3	5.3
11	Mg (mg/L)	5.2	19.6	23.1	21.4	20.4
12	Na (mg/L)	14.6	55.4	72.2	48.5	76.1
13	NH3-N (mg N/L)	0.17	0.06		0.07	0.03
14	NO2+NO3 (mg N/L)	0.51	2.37			
15	NO2-N (mgN/L)	0.05	0.03			
16	NO3-N (mgN/L)	0.45	2.35	0.39	0.88	3.46
17	o-PO4-P (mg P/L)	0.073		0.010	0.017	0.069
18	P-Tot (mgP/L)		0.019			
19	SiO2 (mg/L)	12.1	20.0	2.5	23.4	23.6
20	SO4 (mg/L)	15.0	21.5	44.8	50.8	33.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	3.5	1.8	1.1	1.3	1.3
2	COD (mg/L)	18.3				
3	DO (mg/L)	6.1	8.1	8.0		8.1
4	DO_SAT% (%)	76	97	91		97
	TRACE & TOXIC					
1	As (μg/L)	2.0				
2	Cd (μg/L)	0.0				
3	Cr (μg/L)	2.0				
4	Cu (μg/L)	6.0				
5	Ni (μg/L)					
6	Pb (μg/L)	0.0				
7	Zn (μg/L)	3.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	39	88	84	95	95
2	HAR_Total (mgCaCO3/L)	60	170	180	184	180
3	Na% (%)	31	37	44	36	47
4	RSC (-)	0.0	0.1	0.0	0.2	0.1
5	SAR (-)	0.8	1.7	2.3	1.5	2.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NALLAMARANPATTY (CCD00D5)

Division : SR Division, Coimbatore

Local River : Amaravathi

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	49.49	0.000	0.000	11.95	2.939
2	EC_FLD (μmho/cm)	518			395	646
3	EC_GEN (μmho/cm)	518			395	646
4	pH_FLD (pH units)	7.9			7.7	8.3
5	pH_GEN (pH units)	7.9			7.8	8.3
6	TDS (mg/L)				224	369
7	Temp (deg C)	25.1			26.5	25.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0			0.0	26.7
2	ALK-TOT (mgCaCO3/L)	128			126	142
3	B (mg/L)					0.02
4	Ca (mg/L)	36			25	51
5	Cl (mg/L)	102.3			43.9	121.2
6	CO3 (mg/L)	0.0			0.0	32.2
7	F (mg/L)	0.34			0.24	0.49
8	Fe (mg/L)	0.1			0.0	0.0
9	HCO3 (mg/L)	156			153	107
10	K (mg/L)	4.8			4.7	6.8
11	Mg (mg/L)	18.7			21.3	21.1
12	Na (mg/L)	61.1			31.1	64.3
13	NH3-N (mg N/L)				0.18	0.17
14	NO2+NO3 (mg N/L)				0.06	3.65
15	NO2-N (mgN/L)				0.00	0.04
16	NO3-N (mgN/L)	1.80			1.44	3.61
17	o-PO4-P (mg P/L)				0.000	0.340
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				17.0	19.0
20	SO4 (mg/L)	22.0			25.3	30.9
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.6			2.6	5.7
2	COD (mg/L)				9.3	30.9
3	DO (mg/L)	8.1			8.4	8.9
4	DO_SAT% (%)	98			104	108
	TRACE & TOXIC					
1	As (μg/L)	0.4				
2	Cd (μg/L)	0.2			0.6	
3	Cr (μg/L)	3.1			21.1	
4	Cu (μg/L)	13.0			11.9	
5	Ni (μg/L)				0.8	
6	Pb (μg/L)	4.9			2.5	
7	Zn (μg/L)	8.8			2.5	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	91			61	126
2	HAR_Total (mgCaCO3/L)	169			150	214
3	Na% (%)	43			30	39
4	RSC (-)	0.0			0.0	0.0
5	SAR (-)	2.0			1.1	1.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NALLAMARANPATTY (CCD00D5)

Division : SR Division, Coimbatore

Local River : Amaravathi

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)		2.258	2.720	Dry Bed	Dry Bed
2	EC_FLD (μmho/cm)		382	866		
3	EC_GEN (μmho/cm)		382	866		
4	pH_FLD (pH units)		8.0	6.8		
5	pH_GEN (pH units)		8.0	8.6		
6	TDS (mg/L)		219			
7	Temp (deg C)		27.2	25.5		
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0	17.3		
2	ALK-TOT (mgCaCO3/L)		107	174		
3	B (mg/L)		0.12	0.31		
4	Ca (mg/L)		33	35		
5	Cl (mg/L)		47.4	148.5		
6	CO3 (mg/L)		0.0	20.9		
7	F (mg/L)		0.50	0.73		
8	Fe (mg/L)		0.0	0.1		
9	HCO3 (mg/L)		131	170		
10	K (mg/L)		4.2	6.5		
11	Mg (mg/L)		11.5	29.2		
12	Na (mg/L)		30.9	93.0		
13	NH3-N (mg N/L)		0.07	0.05		
14	NO2+NO3 (mg N/L)		0.73	1.36		
15	NO2-N (mgN/L)		0.00	0.00		
16	NO3-N (mgN/L)		0.73	1.36		
17	o-PO4-P (mg P/L)		0.017			
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)		11.8	29.5		
20	SO4 (mg/L)		22.8	36.7		
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		3.0	0.8		
2	COD (mg/L)		9.9			
3	DO (mg/L)		8.7	8.5		
4	DO_SAT% (%)		109	103		
	TRACE & TOXIC					
1	As (μg/L)		3.9			
2	Cd (μg/L)		0.1			
3	Cr (μg/L)		1.2			
4	Cu (μg/L)		6.3			
5	Ni (μg/L)		5.3			
6	Pb (μg/L)		1.9			
7	Zn (μg/L)		7.4			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		82	88		
2	HAR_Total (mgCaCO3/L)		130	210		
3	Na% (%)		33	48		
4	RSC (-)		0.0	0.0		
5	SAR (-)		1.2	2.8		
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NALLAMARANPATTY (CCD00D5)

Division : SR Division, Coimbatore

Local River : Amaravathi

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	Dry Bed
2	EC_FLD (μmho/cm)				
3	EC_GEN (μmho/cm)				
4	pH_FLD (pH units)				
5	pH_GEN (pH units)				
6	TDS (mg/L)				
7	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	B (mg/L)				
4	Ca (mg/L)				
5	Cl (mg/L)				
6	CO3 (mg/L)				
7	F (mg/L)				
8	Fe (mg/L)				
9	HCO3 (mg/L)				
10	K (mg/L)				
11	Mg (mg/L)				
12	Na (mg/L)				
13	NH3-N (mg N/L)				
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)				
17	o-PO4-P (mg P/L)				
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)				
20	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
2	COD (mg/L)				
3	DO (mg/L)				
4	DO_SAT% (%)				
	TRACE & TOXIC				
1	As (μg/L)				
2	Cd (μg/L)				
3	Cr (μg/L)				
4	Cu (μg/L)				
5	Ni (μg/L)				
6	Pb (μg/L)				
7	Zn (μg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NALLAMARANPATTY (CCD00D5)

Division : SR Division, Coimbatore

Local River : Amaravathi

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	Dry Bed
2	EC_FLD (μmho/cm)				
3	EC_GEN (μmho/cm)				
4	pH_FLD (pH units)				
5	pH_GEN (pH units)				
6	TDS (mg/L)				
7	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	B (mg/L)				
4	Ca (mg/L)				
5	Cl (mg/L)				
6	CO3 (mg/L)				
7	F (mg/L)				
8	Fe (mg/L)				
9	HCO3 (mg/L)				
10	K (mg/L)				
11	Mg (mg/L)				
12	Na (mg/L)				
13	NH3-N (mg N/L)				
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)				
17	o-PO4-P (mg P/L)				
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)				
20	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
2	COD (mg/L)				
3	DO (mg/L)				
4	DO_SAT% (%)				
	TRACE & TOXIC				
1	As (μg/L)				
2	Cd (μg/L)				
3	Cr (μg/L)				
4	Cu (μg/L)				
5	Ni (μg/L)				
6	Pb (μg/L)				
7	Zn (μg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: ELUNUTHIMANGALAM	Code	: CCF00A4
State	: Tamil Nadu	District	Erode
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Noyyal	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Noyyal
Division	: SR Division, Coimbatore	Sub-Division	: Lower Cauvery SD, Trichy
Drainage Area	: 3386 Sq. Km.	Bank	: Left
Latitude	: 11°01'54"	Longitude	: 77°53'15"
Zero of Gauge (m)	: 129.000 (m.s.l)	01/06/1997	- 01/06/2050
	Opening Date	Closing Date	
Gauge	: 27/11/1997		
Discharge	: 07/08/1998		
Sediment	:		
Water Quality	: 03/10/2000		

Water Quality Datasheet for the period : 2017-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_FLD (μmho/cm)			
4	EC_GEN (μmho/cm)			
5	Odour_Code (-)			
6	pH_FLD (pH units)			
7	pH_GEN (pH units)			
8	TDS (mg/L)			
9	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	04/09/2017	11/09/2017	21/09/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	50.92	32.38	9.638
2	Colour_Cod (-)	Light Brown	Light Brown	Light Brown
3	EC_FLD (μmho/cm)	3285	1156	3100
4	EC_GEN (μmho/cm)	3285	1156	2973
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	8.3	8.1	8.3
7	pH_GEN (pH units)	8.3	7.8	8.3
8	TDS (mg/L)	1868	663	1683
9	Temp (deg C)	26.0	27.0	28.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	37.6	0.0	48.9
2	ALK-TOT (mgCaCO3/L)	351	128	381
3	B (mg/L)	0.16	0.95	0.39
4	Ca (mg/L)	68	32	143
5	Cl (mg/L)	661.7	222.4	564.5
6	CO3 (mg/L)	45.3	0.0	58.9
7	F (mg/L)	0.55	0.25	0.59
8	Fe (mg/L)	0.1	0.0	0.1
9	HCO3 (mg/L)	336	157	345
10	K (mg/L)	33.2	15.1	26.6
11	Mg (mg/L)	84.1	31.8	68.2
12	Na (mg/L)	491.0	162.0	380.5
13	NH3-N (mg N/L)	0.14	0.41	0.40
14	NO2+NO3 (mg N/L)	15.05	3.47	6.53
15	NO2-N (mgN/L)	0.05	0.00	0.00
16	NO3-N (mgN/L)	15.00	3.47	6.53
17	o-PO4-P (mg P/L)	1.500	0.500	1.200
18	SiO2 (mg/L)	25.9	10.6	16.0
19	SO4 (mg/L)	289.7	121.1	269.2
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	19.9	4.4	18.4
2	COD (mg/L)	40.2	21.3	35.3
3	DO (mg/L)		5.8	5.4
4	DO_SAT% (%)		73	69
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	170	81	358
2	HAR_Total (mgCaCO3/L)	520	213	643
3	Na% (%)	66	60	55
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	9.4	4.8	6.6
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	03/10/2017	16/10/2017	21/10/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	3.161	2.514
2	Colour_Cod (-)		Light Green	Light Green
3	EC_FLD (µmho/cm)		3040	4062
4	EC_GEN (µmho/cm)		2852	4062
5	Odour_Code (-)		odour free	odour free
6	pH_FLD (pH units)		8.5	8.9
7	pH_GEN (pH units)		8.1	8.9
8	TDS (mg/L)		1617	2320
9	Temp (deg C)		27.0	28.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	70.7
2	ALK-TOT (mgCaCO3/L)		273	247
3	B (mg/L)		0.31	0.42
4	Ca (mg/L)		92	110
5	Cl (mg/L)		544.6	911.4
6	CO3 (mg/L)		0.0	85.2
7	F (mg/L)		0.54	0.64
8	Fe (mg/L)		0.0	0.0
9	HCO3 (mg/L)		333	128
10	K (mg/L)		27.8	26.2
11	Mg (mg/L)		59.5	82.8
12	Na (mg/L)		393.0	609.0
13	NH3-N (mg N/L)		0.18	0.14
14	NO2+NO3 (mg N/L)		5.72	4.70
15	NO2-N (mgN/L)		0.00	0.00
16	NO3-N (mgN/L)		5.72	4.70
17	o-PO4-P (mg P/L)		2.500	0.900
18	SiO2 (mg/L)		20.2	21.2
19	SO4 (mg/L)		293.6	426.4
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		19.2	21.5
2	COD (mg/L)		39.9	45.5
3	DO (mg/L)		5.8	5.6
4	DO_SAT% (%)		73	71
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		230	276
2	HAR_Total (mgCaCO3/L)		478	621
3	Na% (%)		63	67
4	RSC (-)		0.0	0.0
5	SAR (-)		7.8	10.7
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/11/2017	13/11/2017	21/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	3.136	2.517	1.814
2	Colour_Cod (-)	Light Green	Light Green	Light Green
3	EC_FLD (μ mho/cm)	3150	3020	3100
4	EC_GEN (μ mho/cm)	3106	4516	3617
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	8.1	8.1	8.2
7	pH_GEN (pH units)	7.6	8.5	8.8
8	TDS (mg/L)	1805	2624	2090
9	Temp (deg C)	27.5	27.0	26.5
	CHEMICAL			
1	Alk-Phen (mgCaCO ₃ /L)	0.0	59.6	70.7
2	ALK-TOT (mgCaCO ₃ /L)	269	404	490
3	B (mg/L)	0.34	0.40	0.38
4	Ca (mg/L)	101	138	101
5	Cl (mg/L)	626.2	966.4	736.5
6	CO ₃ (mg/L)	0.0	71.8	85.2
7	F (mg/L)	0.54	0.75	0.75
8	Fe (mg/L)	0.1	0.0	0.0
9	HCO ₃ (mg/L)	328	347	424
10	K (mg/L)	27.4	36.1	32.4
11	Mg (mg/L)	70.7	112.6	103.3
12	Na (mg/L)	430.0	669.0	527.0
13	NH ₃ -N (mg N/L)	0.20	0.27	0.24
14	NO ₂ +NO ₃ (mg N/L)	2.26	5.61	2.19
15	NO ₂ -N (mgN/L)	0.00	0.00	0.00
16	NO ₃ -N (mgN/L)	2.26	5.61	2.19
17	o-PO ₄ -P (mg P/L)	1.350	1.250	1.100
18	SiO ₂ (mg/L)	13.0	25.3	20.6
19	SO ₄ (mg/L)	299.1	389.5	295.1
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD ₃ -27 (mg/L)	5.7	5.7	6.7
2	COD (mg/L)	22.8	24.7	27.9
3	DO (mg/L)	5.0	4.8	5.0
4	DO_SAT% (%)	63	60	62
	TRACE & TOXIC			
1	As (μ g/L)			
2	Cd (μ g/L)			
3	Cr (μ g/L)			
4	Cu (μ g/L)			
5	Ni (μ g/L)			
6	Pb (μ g/L)			
7	Zn (μ g/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO ₃ /L)	253	345	253
2	HAR_Total (mgCaCO ₃ /L)	548	814	683
3	Na% (%)	62	63	61
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	8.0	10.2	8.8
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/12/2017	11/12/2017	21/12/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	2.591	2.192	2.253
2	Colour_Cod (-)	Light Green	Light Green	Light Green
3	EC_FLD (μmho/cm)	1197	4580	3897
4	EC_GEN (μmho/cm)	1197	4580	3897
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	8.2	8.4	8.1
7	pH_GEN (pH units)	8.3	8.6	8.7
8	TDS (mg/L)	691	2634	2203
9	Temp (deg C)	27.0	27.0	26.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	12.9	99.0	86.1
2	ALK-TOT (mgCaCO3/L)	130	480	458
3	B (mg/L)	0.51	0.44	0.04
4	Ca (mg/L)	42	64	74
5	Cl (mg/L)	264.2	1027.3	841.4
6	CO3 (mg/L)	15.6	119.2	103.7
7	F (mg/L)	0.78	0.76	0.78
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	126	343	348
10	K (mg/L)	20.0	38.4	34.2
11	Mg (mg/L)	31.4	156.3	131.5
12	Na (mg/L)	173.0	663.0	559.0
13	NH3-N (mg N/L)	0.31	0.23	0.28
14	NO2+NO3 (mg N/L)	12.60	16.11	20.20
15	NO2-N (mgN/L)	0.00	0.01	0.00
16	NO3-N (mgN/L)	12.60	16.10	20.20
17	o-PO4-P (mg P/L)	1.350	1.350	1.400
18	SiO2 (mg/L)	27.9	30.8	28.4
19	SO4 (mg/L)	77.9	271.6	241.7
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	4.3	5.9	5.3
2	COD (mg/L)	15.3	32.3	31.5
3	DO (mg/L)	4.8	5.0	4.8
4	DO_SAT% (%)	60	63	59
	TRACE & TOXIC			
1	As (μg/L)	3.9		
2	Cd (μg/L)	2.9		
3	Cr (μg/L)	7.8		
4	Cu (μg/L)	8.3		
5	Ni (μg/L)	26.4		
6	Pb (μg/L)	10.6		
7	Zn (μg/L)	2.3		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	106	161	185
2	HAR_Total (mgCaCO3/L)	237	812	732
3	Na% (%)	59	63	61
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	4.9	10.2	9.0
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/01/2018	11/01/2018	21/01/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	1.387	1.797	No Flow
2	Colour_Cod (-)	Light Green	5	
3	EC_FLD (µmho/cm)	4342	3050	
4	EC_GEN (µmho/cm)	4342	3504	
5	Odour_Code (-)	odour free	odour free	
6	pH_FLD (pH units)	8.1	8.1	
7	pH_GEN (pH units)	8.5	8.3	
8	TDS (mg/L)	2475	1998	
9	Temp (deg C)	27.0	27.0	
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	38.6	13.0	
2	ALK-TOT (mgCaCO3/L)	648	321	
3	B (mg/L)	0.50	0.10	
4	Ca (mg/L)	47	79	
5	Cl (mg/L)	1037.1	735.6	
6	CO3 (mg/L)	46.6	15.6	
7	F (mg/L)	0.72	1.14	
8	Fe (mg/L)	0.0	0.0	
9	HCO3 (mg/L)	696	360	
10	K (mg/L)	38.0	28.5	
11	Mg (mg/L)	135.3	89.4	
12	Na (mg/L)	706.0	557.0	
13	NH3-N (mg N/L)	0.30	0.05	
14	NO2+NO3 (mg N/L)	9.53	2.28	
15	NO2-N (mgN/L)	0.01	0.01	
16	NO3-N (mgN/L)	9.52	2.27	
17	o-PO4-P (mg P/L)	0.030	0.900	
18	SiO2 (mg/L)	15.3	24.6	
19	SO4 (mg/L)	87.5	311.7	
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	9.1	4.8	
2	COD (mg/L)	41.9	33.7	
3	DO (mg/L)	5.0	4.8	
4	DO_SAT% (%)	63	60	
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	118	196	
2	HAR_Total (mgCaCO3/L)	682	569	
3	Na% (%)	68	67	
4	RSC (-)	0.0	0.0	
5	SAR (-)	11.8	10.2	
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/02/2018	12/02/2018	21/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_FLD (μmho/cm)			
4	EC_GEN (μmho/cm)			
5	Odour_Code (-)			
6	pH_FLD (pH units)			
7	pH_GEN (pH units)			
8	TDS (mg/L)			
9	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/03/2018	12/03/2018	21/03/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_FLD (μmho/cm)			
4	EC_GEN (μmho/cm)			
5	Odour_Code (-)			
6	pH_FLD (pH units)			
7	pH_GEN (pH units)			
8	TDS (mg/L)			
9	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	02/04/2018	11/04/2018	21/04/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_FLD (μmho/cm)			
4	EC_GEN (μmho/cm)			
5	Odour_Code (-)			
6	pH_FLD (pH units)			
7	pH_GEN (pH units)			
8	TDS (mg/L)			
9	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	06/05/2018	11/05/2018	21/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	8.726	3.464	1.763
2	Colour_Cod (-)	Clear	Clear	Light Green
3	EC_FLD (μmho/cm)	1517	3550	4300
4	EC_GEN (μmho/cm)	1517	3550	4300
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.1	8.7	8.8
7	pH_GEN (pH units)	7.1	8.7	8.8
8	TDS (mg/L)	865	2024	2451
9	Temp (deg C)	28.5	28.0	28.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	45.1	82.1
2	ALK-TOT (mgCaCO3/L)	144	346	396
3	B (mg/L)	0.31	0.15	0.29
4	Ca (mg/L)	48	35	96
5	Cl (mg/L)	293.2	761.8	975.9
6	CO3 (mg/L)	0.0	54.4	98.9
7	F (mg/L)	0.37	0.66	0.77
8	Fe (mg/L)	0.1	0.0	0.1
9	HCO3 (mg/L)	176	312	281
10	K (mg/L)	18.0	66.0	80.0
11	Mg (mg/L)	34.1	89.5	59.3
12	Na (mg/L)	211.0	546.0	695.0
13	NH3-N (mg N/L)	0.09	0.05	0.02
14	NO2+NO3 (mg N/L)	5.43	2.67	3.54
15	NO2-N (mgN/L)	0.00	0.26	0.53
16	NO3-N (mgN/L)	5.43	2.41	3.01
17	o-PO4-P (mg P/L)	0.850	1.200	0.900
18	SiO2 (mg/L)	15.3	14.5	16.2
19	SO4 (mg/L)	170.9	290.8	295.9
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	9.9	4.0	6.1
2	COD (mg/L)	22.8	19.2	21.8
3	DO (mg/L)	5.2	5.0	4.8
4	DO_SAT% (%)	66	63	61
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	120	88	240
2	HAR_Total (mgCaCO3/L)	262	461	487
3	Na% (%)	62	69	72
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	5.7	11.1	13.7
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

Sub-Division : Lower Cauvery SD, Trichy

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	50.92	0.000	1.781
2	EC_FLD (μmho/cm)	16	4580	1156	3147
3	EC_GEN (μmho/cm)	16	4580	1156	3278
4	pH_FLD (pH units)	16	8.9	7.1	8.2
5	pH_GEN (pH units)	16	8.9	7.1	8.3
6	TDS (mg/L)	16	2634	663	1876
7	Temp (deg C)	16	28.5	26.0	27.3
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	16	99.0	0.0	41.5
2	ALK-TOT (mgCaCO3/L)	16	648	128	342
3	B (mg/L)	16	0.95	0.04	0.36
4	Ca (mg/L)	16	143	32	80
5	Cl (mg/L)	16	1037.1	222.4	698.1
6	CO3 (mg/L)	16	119.2	0.0	50
7	F (mg/L)	16	1.14	0.25	0.66
8	Fe (mg/L)	16	0.1	0.0	0
9	HCO3 (mg/L)	16	696	126	315
10	K (mg/L)	16	80.0	15.1	34.2
11	Mg (mg/L)	16	156.3	31.4	83.7
12	Na (mg/L)	16	706.0	162.0	485.7
13	NH3-N (mg N/L)	16	0.41	0.02	0.21
14	NO2+NO3 (mg N/L)	16	20.20	2.19	7.37
15	NO2-N (mgN/L)	16	0.53	0.00	0.05
16	NO3-N (mgN/L)	16	20.20	2.19	7.31
17	o-PO4-P (mg P/L)	16	2.500	0.030	1.143
18	SiO2 (mg/L)	16	30.8	10.6	20.4
19	SO4 (mg/L)	16	426.4	77.9	258.2
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	16	21.5	4.0	9.4
2	COD (mg/L)	16	45.5	15.3	29.8
3	DO (mg/L)	15	5.8	4.8	5.1
4	DO_SAT% (%)	15	73	59	64
	TRACE & TOXIC				
1	As (μg/L)	1	3.9	3.9	3.9
2	Cd (μg/L)	1	2.9	2.9	2.9
3	Cr (μg/L)	1	7.8	7.8	7.8
4	Cu (μg/L)	1	8.3	8.3	8.3
5	Ni (μg/L)	1	26.4	26.4	26.4
6	Pb (μg/L)	1	10.6	10.6	10.6
7	Zn (μg/L)	1	2.3	2.3	2.3
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	16	358	81	199
2	HAR_Total (mgCaCO3/L)	16	814	213	548
3	Na% (%)	16	72	55	64
4	RSC (-)	16	0.0	0.0	0
5	SAR (-)	16	13.7	4.8	8.9
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	4.549	2.618	1.612	1.358	0.929
2	EC_FLD (µmho/cm)	4940	5864	7332	5178	2990
3	EC_GEN (µmho/cm)	4342	6242	7232	5178	2990
4	pH_FLD (pH units)	8.4	8.5	8.5	8.4	8.1
5	pH_GEN (pH units)	8.3	8.7	8.5	8.7	8.6
6	TDS (mg/L)					
7	Temp (deg C)	27.9	21.6	27.3	27.8	25.8
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	28.7	62.5	76.7	131.5	45.4
2	ALK-TOT (mgCaCO3/L)	356	554	645	634	354
3	B (mg/L)	0.47	0.63	0.49	0.37	
4	Ca (mg/L)	94	100	123	118	68
5	Cl (mg/L)	1099.2	1697.7	2128.1	1597.1	885.8
6	CO3 (mg/L)	34.6	75.3	92.4	158.4	54.7
7	F (mg/L)	1.17	1.27	1.01	1.52	1.21
8	Fe (mg/L)	0.1	0.1	0.2	0.1	
9	HCO3 (mg/L)	364	523	599	452	321
10	K (mg/L)	27.0	44.3	46.2	46.9	28.7
11	Mg (mg/L)	74.2	93.8	103.5	99.7	91.8
12	Na (mg/L)	792.2	1169.2	1443.5	1185.2	578.2
13	NH3-N (mg N/L)	0.08	0.44	0.17	0.16	
14	NO2+NO3 (mg N/L)	15.74	16.89			
15	NO2-N (mgN/L)	0.19	1.11			
16	NO3-N (mgN/L)	15.55	15.78	9.00	20.78	4.39
17	o-PO4-P (mg P/L)		0.856	0.987	1.634	
18	P-Tot (mgP/L)	0.610				
19	SiO2 (mg/L)	36.6	37.2	56.0	57.0	
20	SO4 (mg/L)	233.6	244.6	463.6	489.5	223.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.9	3.0	2.5	3.4	4.0
2	COD (mg/L)					
3	DO (mg/L)	6.1	6.3	6.4	6.1	5.9
4	DO_SAT% (%)	77	71	80	77	71
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	234	249	308	295	169
2	HAR_Total (mgCaCO3/L)	543	640	739	710	552
3	Na% (%)	73	77	79	76	68
4	RSC (-)	0.0	0.4	0.0	0.4	0.0
5	SAR (-)	14.1	20.4	22.9	19.4	10.8
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	0.167	2.902	0.892	10.32	No Flow
2	EC_FLD (µmho/cm)	3210	2198	1872	3569	
3	EC_GEN (µmho/cm)	3210	2198	1872	3569	
4	pH_FLD (pH units)	8.8	8.5	7.4	8.4	
5	pH_GEN (pH units)	8.8	8.5	7.4	8.4	
6	TDS (mg/L)			998	2053	
7	Temp (deg C)	29.0	25.0	29.5	28.0	
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	39.3	27.3	0.0	35.2	
2	ALK-TOT (mgCaCO3/L)	394	306	215	372	
3	B (mg/L)				0.25	
4	Ca (mg/L)	45	80	45	70	
5	Cl (mg/L)	787.0	539.9	411.9	785.7	
6	CO3 (mg/L)	47.3	32.9	0.0	42.4	
7	F (mg/L)	0.52	0.81	0.50	0.64	
8	Fe (mg/L)				0.0	
9	HCO3 (mg/L)	385	306	263	367	
10	K (mg/L)	31.0	22.9	22.5	34.4	
11	Mg (mg/L)	86.5	53.7	45.8	95.0	
12	Na (mg/L)	517.0	401.0	316.0	574.4	
13	NH3-N (mg N/L)		0.31	0.02	0.55	
14	NO2+NO3 (mg N/L)				10.46	
15	NO2-N (mgN/L)				0.14	
16	NO3-N (mgN/L)	1.58	2.52	9.42	10.32	
17	o-PO4-P (mg P/L)				1.044	
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				36.1	
20	SO4 (mg/L)	211.0	161.3	143.0	299.7	
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	4.5	4.3	5.5	4.2	
2	COD (mg/L)		30.0	14.5	38.0	
3	DO (mg/L)	5.8	5.8	5.8	5.1	
4	DO_SAT% (%)	75	70	75	65	
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	112	201	112	175	
2	HAR_Total (mgCaCO3/L)	473	425	303	571	
3	Na% (%)	69	66	68	64	
4	RSC (-)	0.0	0.0	0.0	0.0	
5	SAR (-)	10.4	8.5	7.9	10.1	
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	10.96	11.17	7.857	9.292	13.43
2	EC_FLD (µmho/cm)	2929	2624	2644	2642	2385
3	EC_GEN (µmho/cm)	2866	2594	2494	2244	2385
4	pH_FLD (pH units)	8.4	8.5	8.5	8.4	8.4
5	pH_GEN (pH units)	8.3	8.5	8.4	8.4	8.4
6	TDS (mg/L)	1630				
7	Temp (deg C)	27.3	23.6	20.3	27.5	26.4
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	31.4	24.2	32.3	48.2	41.8
2	ALK-TOT (mgCaCO3/L)	276	336	395	393	390
3	B (mg/L)	0.45	0.43	0.16	0.38	0.42
4	Ca (mg/L)	89	81	88	85	90
5	Cl (mg/L)	580.9	566.4	626.6	496.7	623.6
6	CO3 (mg/L)	37.9	29.2	38.9	58.1	50.4
7	F (mg/L)	0.51	1.22	1.35	1.08	1.18
8	Fe (mg/L)	0.0	0.1	0.1	0.2	0.0
9	HCO3 (mg/L)	260	351	403	362	373
10	K (mg/L)	25.8	17.5	19.2	17.1	19.4
11	Mg (mg/L)	65.3	69.0	69.4	56.8	73.4
12	Na (mg/L)	407.1	369.4	408.5	327.5	397.0
13	NH3-N (mg N/L)	0.25	0.06		0.06	0.03
14	NO2+NO3 (mg N/L)	7.09	7.03			
15	NO2-N (mgN/L)	0.01	0.05			
16	NO3-N (mgN/L)	7.08	6.98	6.07	6.32	9.19
17	o-PO4-P (mg P/L)	1.320		0.913	0.760	0.790
18	P-Tot (mgP/L)		0.519			
19	SiO2 (mg/L)	18.8	32.6	2.4	44.7	39.8
20	SO4 (mg/L)	280.0	155.0	201.6	174.7	173.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	16.7	3.1	1.9	1.8	1.6
2	COD (mg/L)	36.4				
3	DO (mg/L)	5.7	6.6	6.2	6.2	5.9
4	DO_SAT% (%)	72	78	68	77	72
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	223	202	220	213	224
2	HAR_Total (mgCaCO3/L)	495	490	510	450	530
3	Na% (%)	62	61	60	61	61
4	RSC (-)	0.0	0.0	0.0	0.1	0.0
5	SAR (-)	7.9	7.2	7.8	6.8	7.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	21.05	0.323	2.143	13.55	35.78
2	EC_FLD (µmho/cm)	1425	3340	1805	2113	1626
3	EC_GEN (µmho/cm)	1425	3340	1805	2118	2126
4	pH_FLD (pH units)	8.1	8.1	8.5	8.2	8.3
5	pH_GEN (pH units)	8.3	8.4	8.7	8.4	8.3
6	TDS (mg/L)				1200	1219
7	Temp (deg C)	24.9	25.3	27.8	26.8	26.5
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	29.5	39.6	43.0	24.9	28.6
2	ALK-TOT (mgCaCO3/L)	277	354	356	340	385
3	B (mg/L)				0.15	0.31
4	Ca (mg/L)	82	131	69	72	56
5	Cl (mg/L)	347.1	782.0	370.0	415.1	382.1
6	CO3 (mg/L)	35.5	47.8	51.8	30.0	34.4
7	F (mg/L)	0.91	0.18	0.94	0.62	1.11
8	Fe (mg/L)	0.1			0.0	0.0
9	HCO3 (mg/L)	266	335	329	354	399
10	K (mg/L)	13.5	29.0	14.7	20.5	20.1
11	Mg (mg/L)	42.8	84.6	53.9	69.3	101.1
12	Na (mg/L)	221.0	492.0	266.2	301.5	263.3
13	NH3-N (mg N/L)			0.14	0.26	0.44
14	NO2+NO3 (mg N/L)				7.62	9.70
15	NO2-N (mgN/L)				0.07	0.01
16	NO3-N (mgN/L)	3.63	2.85	2.72	8.22	9.69
17	o-PO4-P (mg P/L)				0.725	1.015
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				37.9	41.9
20	SO4 (mg/L)	104.7	238.9	100.0	152.9	193.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	3.3	5.0	3.6	2.5	3.1
2	COD (mg/L)		43.1	17.9	16.3	26.9
3	DO (mg/L)	5.8	6.1	5.9	6.3	6.2
4	DO_SAT% (%)	70	74	75	79	77
	TRACE & TOXIC					
1	As (µg/L)	0.8				
2	Cd (µg/L)	0.5			8.7	
3	Cr (µg/L)	7.0			3.2	
4	Cu (µg/L)	17.6			8.1	
5	Ni (µg/L)	5.2			38.5	
6	Pb (µg/L)	16.8			18.1	
7	Zn (µg/L)	17.9			2.5	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	205	329	173	180	139
2	HAR_Total (mgCaCO3/L)	384	681	397	469	560
3	Na% (%)	53	60	57	57	50
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	4.8	8.2	5.8	6.0	4.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	No Flow	1.474	3.236	1.502	5.750
2	EC_FLD (µmho/cm)		3292	4628	5125	4733
3	EC_GEN (µmho/cm)		3595	4805	4772	4733
4	pH_FLD (pH units)		8.1	8.5	8.5	8.4
5	pH_GEN (pH units)		8.4	8.5	8.6	8.8
6	TDS (mg/L)		2065			
7	Temp (deg C)		26.9	24.1	29.3	28.5
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		47.5	50.1	66.4	98.3
2	ALK-TOT (mgCaCO3/L)		400	495	611	552
3	B (mg/L)		0.34	0.57	0.86	0.75
4	Ca (mg/L)		81	106	109	109
5	Cl (mg/L)		779.3	1172.7	1399.3	1182.2
6	CO3 (mg/L)		57.2	60.3	80.0	118.4
7	F (mg/L)		0.78	1.28	1.23	1.13
8	Fe (mg/L)		0.0	0.1	0.2	0.5
9	HCO3 (mg/L)		371	481	583	433
10	K (mg/L)		31.9	30.6	38.4	37.6
11	Mg (mg/L)		103.8	80.6	84.9	123.9
12	Na (mg/L)		535.5	813.3	1137.7	917.0
13	NH3-N (mg N/L)		0.23	0.07	0.12	0.01
14	NO2+NO3 (mg N/L)		8.85	13.45		
15	NO2-N (mgN/L)		0.00	0.04		
16	NO3-N (mgN/L)		8.84	12.94	9.60	5.71
17	o-PO4-P (mg P/L)		1.091		1.164	1.234
18	P-Tot (mgP/L)			0.522		
19	SiO2 (mg/L)		23.2	39.8	30.2	81.1
20	SO4 (mg/L)		246.8	241.7	475.3	521.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		6.0	2.4	3.4	2.9
2	COD (mg/L)		28.8			
3	DO (mg/L)		4.9	6.5	6.4	6.0
4	DO_SAT% (%)		61	76	83	77
	TRACE & TOXIC					
1	As (µg/L)		3.9	23.7	212.0	
2	Cd (µg/L)		2.9	39.4		
3	Cr (µg/L)		7.8		8.8	
4	Cu (µg/L)		8.3	26.1	18.1	
5	Ni (µg/L)		26.4		126.3	
6	Pb (µg/L)		10.6	21.0	5.2	
7	Zn (µg/L)		2.3	19.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		202	264	272	274
2	HAR_Total (mgCaCO3/L)		635	600	625	790
3	Na% (%)		63	72	78	71
4	RSC (-)		0.0	0.0	0.8	0.0
5	SAR (-)		9.2	14.4	19.8	14.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	3.593	1.923	No Flow	No Flow
2	EC_FLD (µmho/cm)	2730	1950		
3	EC_GEN (µmho/cm)	2713	1950		
4	pH_FLD (pH units)	8.2	8.1		
5	pH_GEN (pH units)	8.4	8.4		
6	TDS (mg/L)				
7	Temp (deg C)	25.7	27.9		
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	47.8	24.7		
2	ALK-TOT (mgCaCO3/L)	396	267		
3	B (mg/L)	0.48			
4	Ca (mg/L)	90	43		
5	Cl (mg/L)	681.1	565.6		
6	CO3 (mg/L)	57.6	29.8		
7	F (mg/L)	0.97	0.89		
8	Fe (mg/L)	0.1	0.0		
9	HCO3 (mg/L)	366	265		
10	K (mg/L)	22.4	21.6		
11	Mg (mg/L)	73.9	64.8		
12	Na (mg/L)	445.3	380.3		
13	NH3-N (mg N/L)	0.06			
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)	5.74	2.78		
17	o-PO4-P (mg P/L)	1.185			
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	39.1			
20	SO4 (mg/L)	179.3	154.4		
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	5.0	3.8		
2	COD (mg/L)				
3	DO (mg/L)	5.9	5.8		
4	DO_SAT% (%)	72	74		
	TRACE & TOXIC				
1	As (µg/L)	0.9	0.6		
2	Cd (µg/L)	0.1	0.0		
3	Cr (µg/L)	6.5	13.6		
4	Cu (µg/L)	4.2	4.9		
5	Ni (µg/L)		7.6		
6	Pb (µg/L)	0.3	15.2		
7	Zn (µg/L)	20.1	30.0		
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	224	108		
2	HAR_Total (mgCaCO3/L)	532	378		
3	Na% (%)	62	67		
4	RSC (-)	0.0	0.0		
5	SAR (-)	8.2	8.6		
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : ELUNUTHIMANGALAM (CCF00A4)

Division : SR Division, Coimbatore

Local River : Noyyal

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	1.828	0.875	No Flow	1.550
2	EC_FLD (µmho/cm)	4031	4060		3122
3	EC_GEN (µmho/cm)	3648	4060		3122
4	pH_FLD (pH units)	8.5	8.9		8.2
5	pH_GEN (pH units)	8.5	8.9		8.2
6	TDS (mg/L)	2098	2352		1780
7	Temp (deg C)	27.0	27.0		28.2
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	56.9	93.1		42.4
2	ALK-TOT (mgCaCO3/L)	427	437		295
3	B (mg/L)	0.30	0.63		0.25
4	Ca (mg/L)	64	99		60
5	Cl (mg/L)	808.7	871.6		677.0
6	CO3 (mg/L)	68.5	112.2		51.1
7	F (mg/L)	1.14	1.52		0.60
8	Fe (mg/L)	0.1	0.0		0.1
9	HCO3 (mg/L)	382	306		256
10	K (mg/L)	33.1	36.1		54.7
11	Mg (mg/L)	89.3	95.3		61.0
12	Na (mg/L)	611.7	643.0		484.0
13	NH3-N (mg N/L)	0.11	0.03		0.06
14	NO2+NO3 (mg N/L)	8.10	20.20		3.88
15	NO2-N (mgN/L)	0.13	0.00		0.26
16	NO3-N (mgN/L)	7.97	20.20		3.62
17	o-PO4-P (mg P/L)	0.913	1.050		0.983
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	40.9	46.3		15.3
20	SO4 (mg/L)	253.1	347.5		252.5
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	5.0	3.7		6.6
2	COD (mg/L)	34.0	15.2		21.3
3	DO (mg/L)	5.6	3.7		5.0
4	DO_SAT% (%)	70	46		63
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	160	248		149
2	HAR_Total (mgCaCO3/L)	532	645		403
3	Na% (%)	70	67		68
4	RSC (-)	0.0	0.0		0.0
5	SAR (-)	11.5	11.1		10.2
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: KODUMUDI	Code	: CC00017
State	: Tamil Nadu	District	Erode
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: -	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Cauvery
Division	: SR Division, Coimbatore	Sub-Division	: Lower Cauvery SD, Trichy
Drainage Area	: 53233 Sq. Km.	Bank	: Right
Latitude	: 11°04'52"	Longitude	: 77°53'25"
Zero of Gauge (m)	: 121.000 (m.s.l) 121.570 (m.s.l)	05/05/1971 01/06/1987	- 31/05/1987
	Opening Date	Closing Date	
Gauge	: 05/05/1971		
Discharge	: 21/06/1971		
Sediment	: 11/07/1972		
Water Quality	: 01/06/1978		

Water Quality Datasheet for the period : 2017-2018

Station Name : KODUMUDI (CC000I7)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/06/2017	19/07/2017	03/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	16.88	121.2
2	Colour_Cod (-)		Clear	Clear
3	EC_FLD (μmho/cm)		1112	838
4	EC_GEN (μmho/cm)		1112	838
5	Odour_Code (-)		odour free	odour free
6	pH_FLD (pH units)		8.5	7.9
7	pH_GEN (pH units)		8.5	7.5
8	TDS (mg/L)		635	479
9	Temp (deg C)		28.0	29.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		15.2	0.0
2	ALK-TOT (mgCaCO3/L)		183	183
3	B (mg/L)		0.12	0.07
4	Ca (mg/L)		42	38
5	Cl (mg/L)		203.7	122.6
6	CO3 (mg/L)		18.3	0.0
7	F (mg/L)		0.51	0.54
8	Fe (mg/L)		0.1	0.0
9	HCO3 (mg/L)		186	223
10	K (mg/L)		12.9	9.3
11	Mg (mg/L)		29.4	28.5
12	Na (mg/L)		152.0	95.0
13	NH3-N (mg N/L)		0.42	0.62
14	NO2+NO3 (mg N/L)		2.29	3.12
15	NO2-N (mgN/L)		0.00	0.59
16	NO3-N (mgN/L)		2.29	2.53
17	o-PO4-P (mg P/L)		0.210	0.200
18	SiO2 (mg/L)		25.9	27.1
19	SO4 (mg/L)		78.4	61.6
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		4.2	4.3
2	COD (mg/L)		24.0	38.7
3	DO (mg/L)		6.6	6.4
4	DO_SAT% (%)		84	83
	TRACE & TOXIC			
1	As (μg/L)			3.0
2	Cd (μg/L)			0.0
3	Cr (μg/L)			2.0
4	Cu (μg/L)			5.0
5	Ni (μg/L)			
6	Pb (μg/L)			1.0
7	Zn (μg/L)			3.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		106	94
2	HAR_Total (mgCaCO3/L)		228	212
3	Na% (%)		58	48
4	RSC (-)		0.0	0.0
5	SAR (-)		4.4	2.8
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : KODUMUDI (CC000I7)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	04/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	9.393	148.3	230.1
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (µmho/cm)	532	459	371
4	EC_GEN (µmho/cm)	532	459	371
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	9.0	7.9	7.6
7	pH_GEN (pH units)	9.0	7.7	7.8
8	TDS (mg/L)	303	253	217
9	Temp (deg C)	30.5	27.5	30.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	22.6	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	132	112	112
3	B (mg/L)	0.06	0.07	0.07
4	Ca (mg/L)	25	31	31
5	Cl (mg/L)	78.5	64.8	43.0
6	CO3 (mg/L)	27.2	0.0	0.0
7	F (mg/L)	0.33	0.27	0.29
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	106	137	137
10	K (mg/L)	7.3	6.0	4.8
11	Mg (mg/L)	17.8	11.2	11.2
12	Na (mg/L)	57.1	45.8	31.6
13	NH3-N (mg N/L)	0.03	0.15	0.15
14	NO2+NO3 (mg N/L)	0.66	0.42	0.36
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	0.66	0.42	0.36
17	o-PO4-P (mg P/L)	0.080	0.120	0.070
18	SiO2 (mg/L)	3.6	8.9	9.5
19	SO4 (mg/L)	20.8	21.2	16.6
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	4.4	3.1	1.0
2	COD (mg/L)	14.2	15.6	8.4
3	DO (mg/L)	6.7	6.2	6.6
4	DO_SAT% (%)	89	78	87
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	62	77	77
2	HAR_Total (mgCaCO3/L)	136	123	123
3	Na% (%)	46	43	35
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	2.1	1.8	1.2
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : KODUMUDI (CC000I7)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/12/2017	01/01/2018	09/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	124.1	301.3	3.317
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)	452	450	510
4	EC_GEN (μmho/cm)	452	450	597
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.5	8.3	7.2
7	pH_GEN (pH units)	7.7	8.3	7.9
8	TDS (mg/L)	257	258	342
9	Temp (deg C)	30.5	27.0	27.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	25.8	0.0
2	ALK-TOT (mgCaCO3/L)	151	160	169
3	B (mg/L)	0.29	0.12	0.02
4	Ca (mg/L)	39	30	29
5	Cl (mg/L)	47.0	48.9	79.2
6	CO3 (mg/L)	0.0	31.1	0.0
7	F (mg/L)	0.36	0.31	0.53
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	184	132	207
10	K (mg/L)	5.2	4.8	5.9
11	Mg (mg/L)	15.2	22.9	26.3
12	Na (mg/L)	35.4	36.6	59.8
13	NH3-N (mg N/L)	0.22	0.17	0.03
14	NO2+NO3 (mg N/L)	1.59	2.48	0.81
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	1.59	2.48	0.81
17	o-PO4-P (mg P/L)	0.100	0.050	0.040
18	SiO2 (mg/L)	12.9	12.2	14.1
19	SO4 (mg/L)	19.8	17.5	33.4
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.2	2.5	3.5
2	COD (mg/L)	6.9	10.8	5.2
3	DO (mg/L)	6.4	7.0	6.4
4	DO_SAT% (%)	85	88	81
	TRACE & TOXIC			
1	As (μg/L)	2.8		
2	Cd (μg/L)	0.1		
3	Cr (μg/L)	1.6		
4	Cu (μg/L)	5.0		
5	Ni (μg/L)	4.7		
6	Pb (μg/L)	1.3		
7	Zn (μg/L)	8.2		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	98	75	72
2	HAR_Total (mgCaCO3/L)	162	170	182
3	Na% (%)	32	31	41
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	1.2	1.2	1.9
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : KODUMUDI (CC000I7)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	17/03/2018	19/04/2018	14/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	5.681	6.109	52.19
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)	936	867	778
4	EC_GEN (μmho/cm)	936	867	778
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.3	8.3	7.6
7	pH_GEN (pH units)	8.7	8.3	7.6
8	TDS (mg/L)	538	494	443
9	Temp (deg C)	29.0	27.5	30.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	25.9	30.0	0.0
2	ALK-TOT (mgCaCO3/L)	204	189	173
3	B (mg/L)	0.14	0.09	0.01
4	Ca (mg/L)	30	27	27
5	Cl (mg/L)	166.0	137.2	140.8
6	CO3 (mg/L)	31.3	36.1	0.0
7	F (mg/L)	0.54	0.32	0.35
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	185	157	211
10	K (mg/L)	10.7	10.8	8.5
11	Mg (mg/L)	36.0	37.9	22.4
12	Na (mg/L)	124.0	100.0	105.0
13	NH3-N (mg N/L)	0.00	0.02	0.32
14	NO2+NO3 (mg N/L)	0.00	0.70	0.26
15	NO2-N (mgN/L)	0.00	0.00	0.21
16	NO3-N (mgN/L)	0.00	0.70	0.05
17	o-PO4-P (mg P/L)	0.000	0.050	0.130
18	SiO2 (mg/L)	13.5	13.4	11.8
19	SO4 (mg/L)	47.0	63.1	32.8
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	4.7	5.5	1.0
2	COD (mg/L)	15.9	26.2	7.3
3	DO (mg/L)	6.9	6.8	6.4
4	DO_SAT% (%)	89	86	84
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	76	68	68
2	HAR_Total (mgCaCO3/L)	226	226	161
3	Na% (%)	53	48	57
4	RSC (-)	0.0	0.0	0.3
5	SAR (-)	3.6	2.9	3.6
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : KODUMUDI (CC00017)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : Lower Cauvery SD, Trichy

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	623.5	0.000	89.77
2	EC_FLD (µmho/cm)	11	1112	371	664
3	EC_GEN (µmho/cm)	11	1112	371	672
4	pH_FLD (pH units)	11	9.0	7.2	7.9
5	pH_GEN (pH units)	11	9.0	7.5	8.1
6	TDS (mg/L)	11	635	217	384
7	Temp (deg C)	11	30.5	27.0	28.8
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	11	30.0	0.0	10.9
2	ALK-TOT (mgCaCO3/L)	11	204	112	161
3	B (mg/L)	11	0.29	0.01	0.1
4	Ca (mg/L)	11	42	25	32
5	Cl (mg/L)	11	203.7	43.0	102.9
6	CO3 (mg/L)	11	36.1	0.0	13.1
7	F (mg/L)	11	0.54	0.27	0.39
8	Fe (mg/L)	11	0.1	0.0	0
9	HCO3 (mg/L)	11	223	106	170
10	K (mg/L)	11	12.9	4.8	7.8
11	Mg (mg/L)	11	37.9	11.2	23.5
12	Na (mg/L)	11	152.0	31.6	76.6
13	NH3-N (mg N/L)	11	0.62	0.00	0.19
14	NO2+NO3 (mg N/L)	11	3.12	0.00	1.15
15	NO2-N (mgN/L)	11	0.59	0.00	0.07
16	NO3-N (mgN/L)	11	2.53	0.00	1.08
17	o-PO4-P (mg P/L)	11	0.210	0.000	0.095
18	SiO2 (mg/L)	11	27.1	3.6	13.9
19	SO4 (mg/L)	11	78.4	16.6	37.5
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	11	5.5	1.0	3.2
2	COD (mg/L)	11	38.7	5.2	15.7
3	DO (mg/L)	11	7.0	6.2	6.6
4	DO_SAT% (%)	11	89	78	85
	TRACE & TOXIC				
1	As (µg/L)	2	3.0	2.8	2.9
2	Cd (µg/L)	2	0.1	0.0	0
3	Cr (µg/L)	2	2.0	1.6	1.8
4	Cu (µg/L)	2	5.0	5.0	5
5	Ni (µg/L)	1	4.7	4.7	4.7
6	Pb (µg/L)	2	1.3	1.0	1.2
7	Zn (µg/L)	2	8.2	3.0	5.6
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	11	106	62	79
2	HAR_Total (mgCaCO3/L)	11	228	123	177
3	Na% (%)	11	58	31	45
4	RSC (-)	11	0.3	0.0	0
5	SAR (-)	11	4.4	1.2	2.4
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KODUMUDI (CC000I7)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	341.5	414.1	343.2	197.2	463.3
2	EC_FLD (µmho/cm)	395	440	468	375	284
3	EC_GEN (µmho/cm)	372	405	425	375	284
4	pH_FLD (pH units)	8.0	7.9	8.0	8.0	7.7
5	pH_GEN (pH units)	8.0	8.1	7.9	7.9	7.7
6	TDS (mg/L)					
7	Temp (deg C)	28.2	29.6	28.8	29.3	29.6
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	4.0	4.4
2	ALK-TOT (mgCaCO3/L)	123	147	147	152	113
3	B (mg/L)	0.27	0.25	0.40	0.50	
4	Ca (mg/L)	25	27	28	30	25
5	Cl (mg/L)	34.4	34.8	51.6	57.6	37.8
6	CO3 (mg/L)	0.0	0.0	0.0	4.8	5.3
7	F (mg/L)	0.36	0.41	0.33	0.54	0.38
8	Fe (mg/L)	0.1	0.1	0.1	0.1	
9	HCO3 (mg/L)	150	180	179	176	127
10	K (mg/L)	3.4	3.2	4.0	4.1	3.1
11	Mg (mg/L)	12.6	14.2	17.3	18.1	12.1
12	Na (mg/L)	34.5	35.6	40.9	39.2	27.4
13	NH3-N (mg N/L)	0.05	0.08	0.14	0.06	
14	NO2+NO3 (mg N/L)	3.20	1.83			
15	NO2-N (mgN/L)	0.03	0.01			
16	NO3-N (mgN/L)	3.17	1.82	0.95	4.79	0.68
17	o-PO4-P (mg P/L)		0.010	0.064	0.127	
18	P-Tot (mgP/L)	0.021				
19	SiO2 (mg/L)	19.5	19.0	18.1	30.2	
20	SO4 (mg/L)	15.4	14.1	25.5	15.8	12.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.8	1.2	1.1	1.5	1.9
2	COD (mg/L)					
3	DO (mg/L)	6.3	6.5	6.8	6.4	6.4
4	DO_SAT% (%)	81	85	88	84	84
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	63	67	69	76	62
2	HAR_Total (mgCaCO3/L)	115	126	141	152	112
3	Na% (%)	36	37	36	35	34
4	RSC (-)	0.2	0.5	0.1	0.1	0.1
5	SAR (-)	1.3	1.4	1.4	1.4	1.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KODUMUDI (CC000I7)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	142.3	319.2	289.9	256.4	102.8
2	EC_FLD (µmho/cm)	418	441	441	489	599
3	EC_GEN (µmho/cm)	417	441	441	489	605
4	pH_FLD (pH units)	7.9	8.0	8.0	7.9	8.0
5	pH_GEN (pH units)	8.0	8.1	8.0	7.9	8.1
6	TDS (mg/L)			237	284	349
7	Temp (deg C)	29.5	26.8	27.2	27.5	28.5
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	5.0	9.2	6.8	1.5
2	ALK-TOT (mgCaCO3/L)	147	116	134	156	169
3	B (mg/L)				0.09	0.10
4	Ca (mg/L)	33	22	27	27	28
5	Cl (mg/L)	58.6	69.4	60.7	62.2	84.8
6	CO3 (mg/L)	0.0	6.0	11.1	8.2	1.8
7	F (mg/L)	0.23	0.27	0.36	0.52	0.47
8	Fe (mg/L)		0.1		0.0	0.0
9	HCO3 (mg/L)	180	129	141	174	202
10	K (mg/L)	4.0	4.0	4.7	5.9	6.6
11	Mg (mg/L)	13.8	13.3	15.8	22.6	26.1
12	Na (mg/L)	43.9	50.6	46.5	47.2	63.5
13	NH3-N (mg N/L)		0.25	0.17	0.24	0.17
14	NO2+NO3 (mg N/L)				2.01	1.00
15	NO2-N (mgN/L)				0.13	0.03
16	NO3-N (mgN/L)	0.29	0.49	0.79	1.88	0.97
17	o-PO4-P (mg P/L)				0.060	0.100
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				17.1	17.9
20	SO4 (mg/L)	18.3	21.3	20.9	22.5	29.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.5	2.6	2.5	2.5	1.9
2	COD (mg/L)		12.7	9.7	12.4	15.7
3	DO (mg/L)	6.2	6.5	6.4	5.7	6.2
4	DO_SAT% (%)	82	81	80	72	80
	TRACE & TOXIC					
1	As (µg/L)	24.8	0.8			
2	Cd (µg/L)	0.1	0.0			
3	Cr (µg/L)	0.1	4.7			
4	Cu (µg/L)	8.6	2.3			
5	Hg (µg/L)		0.0			
6	Ni (µg/L)	5.3	12.9			
7	Pb (µg/L)	4.1	4.6			
8	Zn (µg/L)	5.7	10.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	82	55	68	67	69
2	HAR_Total (mgCaCO3/L)	139	110	134	161	178
3	Na% (%)	41	33	39	36	41
4	RSC (-)	0.2	0.2	0.1	0.1	0.0
5	SAR (-)	1.6	1.6	1.7	1.6	2.0
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KODUMUDI (CC000I7)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	59.15	401.1	258.7	158.0	156.1
2	EC_FLD (μmho/cm)	735	534	635	536	541
3	EC_GEN (μmho/cm)	735	494	541	484	541
4	pH_FLD (pH units)	8.3	8.1	8.2	7.9	7.9
5	pH_GEN (pH units)	8.2	8.2	7.9	8.2	8.1
6	TDS (mg/L)	418				
7	Temp (deg C)	28.8	27.4	27.3	26.6	27.1
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	9.4	5.1	0.0	0.0	5.0
2	ALK-TOT (mgCaCO3/L)	152	174	218	184	219
3	B (mg/L)	0.08	0.26	0.09	0.33	0.15
4	Ca (mg/L)	34	34	44	38	46
5	Cl (mg/L)	117.4	43.1	49.5	47.6	73.5
6	CO3 (mg/L)	11.4	6.1	0.0	0.0	6.0
7	F (mg/L)	0.41	0.39	0.73	0.64	0.64
8	Fe (mg/L)	0.0	0.1	0.2	0.1	0.0
9	HCO3 (mg/L)	163	200	266	224	255
10	K (mg/L)	8.9	4.2	4.5	4.5	6.4
11	Mg (mg/L)	21.7	17.7	19.9	18.2	25.3
12	Na (mg/L)	87.5	43.9	51.3	41.9	56.2
13	NH3-N (mg N/L)	0.31	0.05		0.04	0.00
14	NO2+NO3 (mg N/L)	1.62	2.27			
15	NO2-N (mgN/L)	0.15	0.02			
16	NO3-N (mgN/L)	1.48	2.25	0.30	1.58	5.30
17	o-PO4-P (mg P/L)	0.152		0.010	0.043	0.176
18	P-Tot (mgP/L)		0.023			
19	SiO2 (mg/L)	16.4	20.9	2.6	24.5	26.2
20	SO4 (mg/L)	45.5	22.9	33.6	36.1	34.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	4.0	1.7	1.3	1.3	1.1
2	COD (mg/L)	23.1				
3	DO (mg/L)	6.5	6.6	6.3	6.4	6.4
4	DO_SAT% (%)	83	83	79	80	80
	TRACE & TOXIC					
1	As (μg/L)	3.0				
2	Cd (μg/L)	0.0				
3	Cr (μg/L)	2.0				
4	Cu (μg/L)	5.0				
5	Hg (μg/L)					
6	Ni (μg/L)					
7	Pb (μg/L)	1.0				
8	Zn (μg/L)	3.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	84	86	111	94	114
2	HAR_Total (mgCaCO3/L)	175	160	194	170	220
3	Na% (%)	49	35	36	34	35
4	RSC (-)	0.0	0.3	0.5	0.3	0.1
5	SAR (-)	2.8	1.5	1.6	1.4	1.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KODUMUDI (CC000I7)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	192.2	33.47	237.7	92.60	253.7
2	EC_FLD (µmho/cm)	441	473	386	521	609
3	EC_GEN (µmho/cm)	441	473	386	504	609
4	pH_FLD (pH units)	8.0	8.0	7.9	7.7	8.0
5	pH_GEN (pH units)	7.8	8.0	8.1	7.9	8.0
6	TDS (mg/L)				286	349
7	Temp (deg C)	27.3	26.1	27.1	24.8	24.4
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	164	162	146	171	200
3	B (mg/L)				0.00	0.10
4	Ca (mg/L)	40	34	32	30	33
5	Cl (mg/L)	59.8	60.2	39.9	54.6	64.6
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.41	0.21	0.35	0.32	0.61
8	Fe (mg/L)	0.1			0.0	0.0
9	HCO3 (mg/L)	200	198	178	209	244
10	K (mg/L)	5.8	4.2	3.7	7.0	8.1
11	Mg (mg/L)	18.7	19.7	19.2	28.2	31.8
12	Na (mg/L)	43.9	42.4	26.3	40.6	56.1
13	NH3-N (mg N/L)		0.14	0.37	0.22	0.38
14	NO2+NO3 (mg N/L)				2.52	4.82
15	NO2-N (mgN/L)				0.03	0.05
16	NO3-N (mgN/L)	0.44	0.26	0.36	3.55	4.78
17	o-PO4-P (mg P/L)				0.020	0.160
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				17.7	22.6
20	SO4 (mg/L)	26.1	19.0	18.6	26.8	36.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.7	2.0	2.3	1.2	2.2
2	COD (mg/L)		9.2	7.3	6.0	16.9
3	DO (mg/L)	6.3	6.4	6.3	6.2	6.0
4	DO_SAT% (%)	79	78	79	75	71
	TRACE & TOXIC					
1	As (µg/L)	0.3				
2	Cd (µg/L)				0.6	
3	Cr (µg/L)	1.2			19.5	
4	Cu (µg/L)	17.8			4.7	
5	Hg (µg/L)					
6	Ni (µg/L)				8.5	
7	Pb (µg/L)	1.4			1.2	
8	Zn (µg/L)	5.9			3.1	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	99	85	81	75	82
2	HAR_Total (mgCaCO3/L)	177	167	161	192	215
3	Na% (%)	34	35	26	31	34
4	RSC (-)	0.0	0.0	0.1	0.0	0.0
5	SAR (-)	1.4	1.4	0.9	1.3	1.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KODUMUDI (CC000I7)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	27.68	164.7	94.47	85.49	106.9
2	EC_FLD (µmho/cm)	516	446	560	482	546
3	EC_GEN (µmho/cm)	536	468	628	482	473
4	pH_FLD (pH units)	7.8	7.6	7.9	8.1	8.0
5	pH_GEN (pH units)	8.1	7.9	8.1	8.2	8.2
6	TDS (mg/L)	311	269			
7	Temp (deg C)	27.8	28.8	29.0	30.3	28.7
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	7.0	6.5	0.0	0.0	4.0
2	ALK-TOT (mgCaCO3/L)	151	148	210	188	168
3	B (mg/L)	0.06	0.12	0.28	0.21	0.39
4	Ca (mg/L)	36	32	45	38	28
5	Cl (mg/L)	77.0	54.5	69.6	58.7	67.1
6	CO3 (mg/L)	8.4	7.8	0.0	0.0	4.8
7	F (mg/L)	0.56	0.37	0.65	0.50	0.56
8	Fe (mg/L)	0.0	0.0	0.1	0.0	0.1
9	HCO3 (mg/L)	167	165	256	229	196
10	K (mg/L)	5.6	5.2	5.9	4.6	4.0
11	Mg (mg/L)	16.3	18.9	20.1	20.4	21.7
12	Na (mg/L)	57.1	40.8	67.4	62.1	50.1
13	NH3-N (mg N/L)	0.43	0.14	0.05	0.07	0.00
14	NO2+NO3 (mg N/L)	0.61	1.31	1.88		
15	NO2-N (mgN/L)	0.07	0.00	0.06		
16	NO3-N (mgN/L)	0.54	1.31	1.82	0.85	1.43
17	o-PO4-P (mg P/L)	0.063	0.065		0.067	0.021
18	P-Tot (mgP/L)			0.075		
19	SiO2 (mg/L)	13.2	12.2	24.8	26.1	25.0
20	SO4 (mg/L)	22.2	21.8	39.6	40.0	31.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.2	2.0	1.0	1.1	0.8
2	COD (mg/L)	15.3	7.8			
3	DO (mg/L)	6.5	6.6	6.6	6.7	6.4
4	DO_SAT% (%)	83	85	86	87	83
	TRACE & TOXIC					
1	As (µg/L)	1.4	2.8	6.8	1.1	
2	Cd (µg/L)	0.1	0.1	0.7		
3	Cr (µg/L)	2.8	1.6		3.0	
4	Cu (µg/L)	2.9	5.0	1.0	3.2	
5	Hg (µg/L)					
6	Ni (µg/L)	2.9	4.7		8.7	
7	Pb (µg/L)	3.7	1.3	2.3		
8	Zn (µg/L)	6.3	8.2	7.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	90	80	114	95	71
2	HAR_Total (mgCaCO3/L)	158	159	197	180	161
3	Na% (%)	41	35	41	42	40
4	RSC (-)	0.0	0.0	0.3	0.2	0.2
5	SAR (-)	1.9	1.4	2.1	2.0	1.7
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KODUMUDI (CC000I7)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	109.7	94.79	70.96	38.34
2	EC_FLD (µmho/cm)	524	358	655	569
3	EC_GEN (µmho/cm)	506	358	659	588
4	pH_FLD (pH units)	7.9	7.8	7.9	8.2
5	pH_GEN (pH units)	8.2	8.0	8.0	8.2
6	TDS (mg/L)				286
7	Temp (deg C)	30.0	30.2	27.8	27.3
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	6.6	0.0	0.0	7.7
2	ALK-TOT (mgCaCO3/L)	189	133	195	175
3	B (mg/L)	0.00			
4	Ca (mg/L)	43	25	35	31
5	Cl (mg/L)	79.1	53.5	103.1	78.7
6	CO3 (mg/L)	8.0	0.0	0.0	9.3
7	F (mg/L)	0.43	0.41	0.57	0.43
8	Fe (mg/L)	0.0	0.0	0.0	0.1
9	HCO3 (mg/L)	215	162	238	194
10	K (mg/L)	5.4	4.3	6.1	5.2
11	Mg (mg/L)	16.5	18.8	22.9	29.3
12	Na (mg/L)	56.8	38.4	74.6	54.1
13	NH3-N (mg N/L)	0.01		0.30	0.36
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)	1.84	0.39	0.19	0.48
17	o-PO4-P (mg P/L)	0.000			
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	33.2			
20	SO4 (mg/L)	22.7	16.5	29.1	26.0
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.2	1.0	3.4	5.8
2	COD (mg/L)			13.2	20.6
3	DO (mg/L)	6.5	6.3	6.3	6.3
4	DO_SAT% (%)	86	83	80	80
	TRACE & TOXIC				
1	As (µg/L)	0.8	0.8	1.6	4.7
2	Cd (µg/L)	0.0	0.0	0.0	0.0
3	Cr (µg/L)	3.5	4.3	0.4	1.9
4	Cu (µg/L)	3.0	4.0	1.7	1.8
5	Hg (µg/L)			0.2	
6	Ni (µg/L)		0.8	12.5	8.8
7	Pb (µg/L)	0.0	4.1	1.4	0.5
8	Zn (µg/L)	28.4	91.0	1.1	5.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	107	61	88	78
2	HAR_Total (mgCaCO3/L)	176	140	183	200
3	Na% (%)	40	37	46	37
4	RSC (-)	0.3	0.0	0.3	0.0
5	SAR (-)	1.9	1.4	2.4	1.7
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KODUMUDI (CC000I7)

Division : SR Division, Coimbatore

Local River : Cauvery

River Water

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	87.78	22.76		21.33
2	EC_FLD (µmho/cm)	539	607		860
3	EC_GEN (µmho/cm)	506	607		860
4	pH_FLD (pH units)	8.0	8.1		7.7
5	pH_GEN (pH units)	7.9	8.1		8.2
6	TDS (mg/L)	290	346		492
7	Temp (deg C)	26.8	27.3		28.8
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0		18.6
2	ALK-TOT (mgCaCO3/L)	156	187		189
3	B (mg/L)	0.01	0.13		0.08
4	Ca (mg/L)	20	40		28
5	Cl (mg/L)	61.5	71.6		148.0
6	CO3 (mg/L)	0.0	0.0		22.5
7	F (mg/L)	0.48	0.50		0.40
8	Fe (mg/L)	0.0	0.0		0.0
9	HCO3 (mg/L)	191	228		185
10	K (mg/L)	5.5	6.4		10.0
11	Mg (mg/L)	25.7	24.8		32.1
12	Na (mg/L)	46.9	55.7		109.7
13	NH3-N (mg N/L)	0.14	0.05		0.11
14	NO2+NO3 (mg N/L)	2.04	4.31		0.32
15	NO2-N (mgN/L)	0.00	0.00		0.07
16	NO3-N (mgN/L)	2.04	4.30		0.25
17	o-PO4-P (mg P/L)	0.040	0.097		0.060
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	19.3	22.0		12.9
20	SO4 (mg/L)	24.3	30.7		47.6
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	3.2	2.9		3.7
2	COD (mg/L)	13.1	19.3		16.5
3	DO (mg/L)	6.3	5.8		6.7
4	DO_SAT% (%)	77	74		86
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Hg (µg/L)				
6	Ni (µg/L)				
7	Pb (µg/L)				
8	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	49	101		71
2	HAR_Total (mgCaCO3/L)	156	204		204
3	Na% (%)	39	36		53
4	RSC (-)	0.0	0.0		0.1
5	SAR (-)	1.6	1.7		3.4
	PESTICIDES				

HISTORY SHEET

Water Year : 2017-2018

Site	: SAVANDAPUR	Code	: CCG00E3
State	: Tamil Nadu	District	Erode
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Bhavani	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Bhavani
Division	: SR Division, Coimbatore	Sub-Division	: Middle Cauvery SD, Coimbatore
Drainage Area	: 5776 Sq. Km.	Bank	: Right
Latitude	: 11°31'17"	Longitude	: 77°30'36"
Zero of Gauge (m)	: 180.000 (m.s.l) 179.000 (m.s.l)	25/06/1977 01/06/1985	- 31/05/1985
	Opening Date	Closing Date	
Gauge	: 25/06/1977		
Discharge	: 17/07/1978		
Sediment	: 24/04/1979		
Water Quality	: 02/04/1979		

Water Quality Datasheet for the period : 2017-2018

Station Name : SAVANDAPUR (CCG00E3)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water Analysis

Sub-Division : MCSD, Coimbatore

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	1.867	16.91	3.872
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)	370	293	215
4	EC_GEN (μmho/cm)	328	293	215
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.6	7.6	7.6
7	pH_GEN (pH units)	7.5	7.5	7.2
8	TDS (mg/L)	186	168	122
9	Temp (deg C)	32.0	31.0	30.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	76	72	61
3	B (mg/L)	0.04	0.05	0.03
4	Ca (mg/L)	28	16	20
5	Cl (mg/L)	52.8	45.3	28.3
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.15	0.25	0.18
8	Fe (mg/L)	0.0	0.1	0.0
9	HCO3 (mg/L)	93	88	74
10	K (mg/L)	4.2	4.6	3.7
11	Mg (mg/L)	7.6	12.3	4.7
12	Na (mg/L)	28.6	24.7	18.2
13	NH3-N (mg N/L)	0.31	0.20	0.11
14	NO2+NO3 (mg N/L)	0.61	0.68	0.33
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	0.61	0.68	0.33
17	o-PO4-P (mg P/L)	0.040	0.010	0.010
18	SiO2 (mg/L)	12.1	11.0	9.2
19	SO4 (mg/L)	11.8	11.8	10.2
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.3	1.1	0.5
2	COD (mg/L)	3.8	9.9	4.4
3	DO (mg/L)	6.9	7.0	6.7
4	DO_SAT% (%)	95	94	89
	TRACE & TOXIC			
1	As (μg/L)			2.0
2	Cd (μg/L)			0.0
3	Cr (μg/L)			2.0
4	Cu (μg/L)			5.0
5	Ni (μg/L)			
6	Pb (μg/L)			1.0
7	Zn (μg/L)			3.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	70	39	51
2	HAR_Total (mgCaCO3/L)	102	90	71
3	Na% (%)	37	36	35
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	1.2	1.1	0.9
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : SAVANDAPUR (CCG00E3)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water Analysis

Sub-Division : MCSD, Coimbatore

S.No	Parameters	01/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	4.959	2.291	8.118
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)	165	213	394
4	EC_GEN (μmho/cm)	165	213	366
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.3	7.6	7.6
7	pH_GEN (pH units)	7.3	7.5	7.6
8	TDS (mg/L)	95	119	213
9	Temp (deg C)	31.0	30.0	30.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	53	67	116
3	B (mg/L)	0.01	0.07	0.09
4	Ca (mg/L)	17	20	40
5	Cl (mg/L)	18.7	20.4	29.9
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.16	0.17	0.36
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	64	82	141
10	K (mg/L)	2.3	3.6	4.2
11	Mg (mg/L)	2.8	6.5	8.4
12	Na (mg/L)	13.6	14.8	20.8
13	NH3-N (mg N/L)	0.10	0.13	0.15
14	NO2+NO3 (mg N/L)	0.01	0.33	0.11
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	0.01	0.33	0.11
17	o-PO4-P (mg P/L)	0.020	0.060	0.040
18	SiO2 (mg/L)	7.1	9.9	13.5
19	SO4 (mg/L)	8.8	14.1	27.5
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.0	1.7	1.8
2	COD (mg/L)	8.5	8.9	7.4
3	DO (mg/L)	5.0	7.0	6.8
4	DO_SAT% (%)	67	93	90
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	42	50	100
2	HAR_Total (mgCaCO3/L)	54	77	135
3	Na% (%)	34	28	25
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.8	0.7	0.8
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : SAVANDAPUR (CCG00E3)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water Analysis

Sub-Division : MCSD, Coimbatore

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	8.221	19.51	20.86
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)	376	378	372
4	EC_GEN (μmho/cm)	401	315	338
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	8.2	7.6	7.4
7	pH_GEN (pH units)	8.2	8.1	8.1
8	TDS (mg/L)	227	179	193
9	Temp (deg C)	27.0	22.0	26.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	138	121	122
3	B (mg/L)	0.25	0.07	0.10
4	Ca (mg/L)	38	33	34
5	Cl (mg/L)	29.4	25.4	32.1
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.37	0.25	0.31
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	169	148	148
10	K (mg/L)	3.7	2.5	3.1
11	Mg (mg/L)	16.2	12.4	10.7
12	Na (mg/L)	20.4	17.6	21.5
13	NH3-N (mg N/L)	0.12	0.11	0.00
14	NO2+NO3 (mg N/L)	3.10	0.51	0.77
15	NO2-N (mgN/L)	0.00	0.00	0.01
16	NO3-N (mgN/L)	3.10	0.51	0.76
17	o-PO4-P (mg P/L)	0.070	1.100	0.000
18	SiO2 (mg/L)	13.8	12.2	13.1
19	SO4 (mg/L)	19.7	13.7	14.8
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.8	4.0	1.4
2	COD (mg/L)	6.7	9.5	8.0
3	DO (mg/L)	6.6	6.9	6.5
4	DO_SAT% (%)	82	79	81
	TRACE & TOXIC			
1	As (μg/L)	6.9		
2	Cd (μg/L)	0.1		
3	Cr (μg/L)	1.3		
4	Cu (μg/L)	5.2		
5	Ni (μg/L)	3.7		
6	Pb (μg/L)	1.4		
7	Zn (μg/L)	4.5		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	94	82	84
2	HAR_Total (mgCaCO3/L)	162	134	129
3	Na% (%)	21	22	26
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.7	0.7	0.8
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : SAVANDAPUR (CCG00E3)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water Analysis

Sub-Division : MCSD, Coimbatore

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	4.201	3.686	10.40
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)	375	366	246
4	EC_GEN (μmho/cm)	412	366	246
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.4	8.2	8.0
7	pH_GEN (pH units)	7.4	8.2	8.0
8	TDS (mg/L)	234	209	140
9	Temp (deg C)	28.0	25.5	30.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	165	130	74
3	B (mg/L)	0.12	0.17	0.00
4	Ca (mg/L)	19	35	22
5	Cl (mg/L)	30.2	37.7	28.9
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.19	0.22	0.11
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	201	159	90
10	K (mg/L)	3.4	3.7	3.8
11	Mg (mg/L)	31.1	10.7	7.8
12	Na (mg/L)	22.2	27.2	19.0
13	NH3-N (mg N/L)	0.04	0.03	0.05
14	NO2+NO3 (mg N/L)	0.67	0.01	0.38
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	0.67	0.01	0.38
17	o-PO4-P (mg P/L)	0.020	0.000	0.040
18	SiO2 (mg/L)	16.4	14.6	9.4
19	SO4 (mg/L)	18.4	15.5	13.8
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.4	1.4	1.0
2	COD (mg/L)	3.3	11.6	8.1
3	DO (mg/L)	7.2	6.8	7.2
4	DO_SAT% (%)	92	82	95
	TRACE & TOXIC			
1	As (μg/L)		0.2	
2	Cd (μg/L)		0.6	
3	Cr (μg/L)		0.5	
4	Cu (μg/L)		0.9	
5	Ni (μg/L)		1.5	
6	Pb (μg/L)		1.8	
7	Zn (μg/L)		29.8	
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	48	88	56
2	HAR_Total (mgCaCO3/L)	178	133	89
3	Na% (%)	21	30	31
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.7	1.0	0.9
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : SAVANDAPUR (CCG00E3)

Division : SR Division, Coimbatore

Local River : Bhavani

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	27.07	1.145	8.348
2	EC_FLD (μmho/cm)	12	394	165	314
3	EC_GEN (μmho/cm)	12	412	165	305
4	pH_FLD (pH units)	12	8.2	7.3	7.7
5	pH_GEN (pH units)	12	8.2	7.2	7.7
6	TDS (mg/L)	12	234	95	174
7	Temp (deg C)	12	32.0	22.0	28.6
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	12	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	12	165	53	100
3	B (mg/L)	12	0.25	0.00	0.08
4	Ca (mg/L)	12	40	16	27
5	Cl (mg/L)	12	52.8	18.7	31.6
6	CO3 (mg/L)	12	0.0	0.0	0
7	F (mg/L)	12	0.37	0.11	0.23
8	Fe (mg/L)	12	0.1	0.0	0
9	HCO3 (mg/L)	12	201	64	122
10	K (mg/L)	12	4.6	2.3	3.6
11	Mg (mg/L)	12	31.1	2.8	10.9
12	Na (mg/L)	12	28.6	13.6	20.7
13	NH3-N (mg N/L)	12	0.31	0.00	0.11
14	NO2+NO3 (mg N/L)	12	3.10	0.01	0.63
15	NO2-N (mgN/L)	12	0.01	0.00	0
16	NO3-N (mgN/L)	12	3.10	0.01	0.62
17	o-PO4-P (mg P/L)	12	1.100	0.000	0.118
18	SiO2 (mg/L)	12	16.4	7.1	11.9
19	SO4 (mg/L)	12	27.5	8.8	15
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	12	4.0	0.4	1.4
2	COD (mg/L)	12	11.6	3.3	7.5
3	DO (mg/L)	12	7.2	5.0	6.7
4	DO_SAT% (%)	12	95	67	87
	TRACE & TOXIC				
1	As (μg/L)	3	6.9	0.2	3
2	Cd (μg/L)	3	0.6	0.0	0.2
3	Cr (μg/L)	3	2.0	0.5	1.3
4	Cu (μg/L)	3	5.2	0.9	3.7
5	Ni (μg/L)	2	3.7	1.5	2.6
6	Pb (μg/L)	3	1.8	1.0	1.4
7	Zn (μg/L)	3	29.8	3.0	12.4
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	12	100	39	67
2	HAR_Total (mgCaCO3/L)	12	178	54	113
3	Na% (%)	12	37	21	29
4	RSC (-)	12	0.0	0.0	0
5	SAR (-)	12	1.2	0.7	0.9
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAVANDAPUR (CCG00E3)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	29.99	19.86	22.83	13.91	21.73
2	EC_FLD (µmho/cm)	387	380	293	335	258
3	EC_GEN (µmho/cm)	275	369	261	307	252
4	pH_FLD (pH units)	7.8	7.8	7.4	7.8	7.7
5	pH_GEN (pH units)	7.7	7.9	7.5	7.5	7.8
6	TDS (mg/L)					
7	Temp (deg C)	28.8	29.2	29.2	28.0	28.7
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	101	145	111	123	100
2	B (mg/L)	0.23	0.22	0.11	0.06	
3	Ca (mg/L)	27	36	29	36	35
4	Cl (mg/L)	16.7	22.1	20.5	30.5	24.6
5	F (mg/L)	0.24	0.33	0.26	0.42	0.34
6	Fe (mg/L)	0.1	0.1	0.1	0.1	
7	HCO3 (mg/L)	123	177	135	150	122
8	K (mg/L)	2.1	2.6	2.3	2.4	2.4
9	Mg (mg/L)	10.1	12.6	11.7	14.3	7.6
10	Na (mg/L)	14.3	20.4	14.7	16.6	15.0
11	NH3-N (mg N/L)	0.04	0.05	0.13	0.04	
12	NO2+NO3 (mg N/L)	2.76	1.97			
13	NO2-N (mgN/L)	0.02	0.01			
14	NO3-N (mgN/L)	2.74	1.96	0.93	4.77	0.71
15	o-PO4-P (mg P/L)		0.010	0.110	0.122	
16	P-Tot (mgP/L)	0.012				
17	SiO2 (mg/L)	18.0	19.0	18.1	23.1	
18	SO4 (mg/L)	14.7	17.9	20.2	16.6	14.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.6	0.8	1.1	0.9	1.6
2	COD (mg/L)					
3	DO (mg/L)	7.5	6.7	6.6	7.0	7.2
4	DO_SAT% (%)	97	88	87	91	93
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	67	89	72	90	87
2	HAR_Total (mgCaCO3/L)	109	142	121	149	118
3	Na% (%)	23	23	21	20	22
4	RSC (-)	0.0	0.1	0.0	0.0	0.0
5	SAR (-)	0.6	0.7	0.6	0.6	0.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAVANDAPUR (CCG00E3)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	12.80	9.948	11.76	17.17	7.011
2	EC_FLD (µmho/cm)	279	264	277	281	327
3	EC_GEN (µmho/cm)	254	243	287	277	313
4	pH_FLD (pH units)	7.8	7.7	7.8	7.8	7.7
5	pH_GEN (pH units)	7.6	7.6	7.7	7.7	7.8
6	TDS (mg/L)			154	160	180
7	Temp (deg C)	29.8	28.8	29.1	29.6	29.4
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	92	87	104	96	104
2	B (mg/L)				0.06	0.06
3	Ca (mg/L)	32	26	23	21	23
4	Cl (mg/L)	23.5	24.6	28.0	26.1	31.9
5	F (mg/L)	0.17	0.20	0.24	0.24	0.26
6	Fe (mg/L)		0.2		0.0	0.0
7	HCO3 (mg/L)	112	106	127	117	126
8	K (mg/L)	2.2	2.3	3.5	4.6	4.0
9	Mg (mg/L)	7.6	9.7	14.2	13.7	13.7
10	Na (mg/L)	14.7	13.8	19.7	19.2	23.4
11	NH3-N (mg N/L)		0.20	0.15	0.26	0.23
12	NO2+NO3 (mg N/L)				2.18	0.79
13	NO2-N (mgN/L)				0.11	0.03
14	NO3-N (mgN/L)	0.28	0.37	1.30	2.08	0.76
15	o-PO4-P (mg P/L)				0.048	0.088
16	P-Tot (mgP/L)					
17	SiO2 (mg/L)				13.9	12.7
18	SO4 (mg/L)	17.2	13.4	14.2	16.9	17.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.3	1.6	1.1	2.1	1.6
2	COD (mg/L)		12.6	9.2	11.5	8.8
3	DO (mg/L)	5.9	6.1	6.8	7.3	6.6
4	DO_SAT% (%)	78	79	88	96	87
	TRACE & TOXIC					
1	As (µg/L)	16.3	7.7			
2	Cd (µg/L)	1.9	0.0			
3	Cr (µg/L)	0.0	28.1			
4	Cu (µg/L)	11.8	2.7			
5	Hg (µg/L)					
6	Ni (µg/L)	7.5	11.8			
7	Pb (µg/L)	1.8	3.9			
8	Zn (µg/L)	2.7	10.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	79	64	58	53	57
2	HAR_Total (mgCaCO3/L)	111	104	118	110	115
3	Na% (%)	23	22	26	27	30
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.6	0.6	0.8	0.8	1.0
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAVANDAPUR (CCG00E3)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	5.980	25.36	19.32	16.39	14.07
2	EC_FLD (μmho/cm)	251	363	446	388	307
3	EC_GEN (μmho/cm)	243	387	374	350	307
4	pH_FLD (pH units)	7.5	8.2	7.9	7.7	7.9
5	pH_GEN (pH units)	7.4	7.9	7.9	7.7	8.0
6	TDS (mg/L)	138				
7	Temp (deg C)	30.8	27.3	26.0	26.1	26.9
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	66	141	161	150	198
2	B (mg/L)	0.04	0.22	0.05	0.21	0.19
3	Ca (mg/L)	20	34	40	38	48
4	Cl (mg/L)	33.1	27.1	26.3	25.6	59.5
5	F (mg/L)	0.18	0.24	0.41	0.40	0.56
6	Fe (mg/L)	0.0	0.1	0.1	0.2	0.0
7	HCO3 (mg/L)	80	172	196	183	242
8	K (mg/L)	3.7	2.5	1.7	2.5	4.4
9	Mg (mg/L)	6.8	13.6	15.1	13.9	23.6
10	Na (mg/L)	20.0	24.5	24.7	22.2	37.1
11	NH3-N (mg N/L)	0.17	0.05		0.04	0.01
12	NO2+NO3 (mg N/L)	0.39	2.77			
13	NO2-N (mgN/L)	0.00	0.01			
14	NO3-N (mgN/L)	0.39	2.76	0.22	1.43	7.01
15	o-PO4-P (mg P/L)	0.028		0.010	0.100	0.078
16	P-Tot (mgP/L)		0.024			
17	SiO2 (mg/L)	9.9	20.3	2.4	24.5	30.5
18	SO4 (mg/L)	11.3	21.6	26.7	27.0	32.9
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.1	0.8	0.9	0.9	0.8
2	COD (mg/L)	7.1				
3	DO (mg/L)	6.5	7.8	7.4	5.3	7.4
4	DO_SAT% (%)	87	98	92	64	92
	TRACE & TOXIC					
1	As (μg/L)	2.0				
2	Cd (μg/L)	0.0				
3	Cr (μg/L)	2.0				
4	Cu (μg/L)	5.0				
5	Hg (μg/L)					
6	Ni (μg/L)					
7	Pb (μg/L)	1.0				
8	Zn (μg/L)	3.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	51	86	101	94	120
2	HAR_Total (mgCaCO3/L)	79	143	164	152	218
3	Na% (%)	34	27	24	24	26
4	RSC (-)	0.0	0.1	0.1	0.0	0.0
5	SAR (-)	1.0	0.9	0.8	0.8	1.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAVANDAPUR (CCG00E3)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	16.89	4.352	13.59	15.83	17.52
2	EC_FLD (µmho/cm)	356	348	273	515	472
3	EC_GEN (µmho/cm)	387	449	268	515	472
4	pH_FLD (pH units)	7.7	7.8	7.8	7.9	7.7
5	pH_GEN (pH units)	7.6	7.6	7.8	8.0	7.7
6	TDS (mg/L)				290	273
7	Temp (deg C)	26.6	26.5	26.9	27.0	27.9
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	146	161	106	178	160
2	B (mg/L)				0.00	0.09
3	Ca (mg/L)	42	45	28	35	34
4	Cl (mg/L)	43.3	46.2	24.4	46.1	41.4
5	F (mg/L)	0.40	0.14	0.21	0.44	0.44
6	Fe (mg/L)	0.1			0.0	0.0
7	HCO3 (mg/L)	178	197	129	217	195
8	K (mg/L)	3.5	4.6	2.4	5.7	5.0
9	Mg (mg/L)	14.3	16.8	14.0	29.9	26.8
10	Na (mg/L)	29.1	30.4	14.1	33.7	29.1
11	NH3-N (mg N/L)		0.06	0.15	0.19	0.39
12	NO2+NO3 (mg N/L)				3.50	4.93
13	NO2-N (mgN/L)				0.03	0.02
14	NO3-N (mgN/L)	0.70	0.52	0.69	5.80	4.91
15	o-PO4-P (mg P/L)				0.025	0.118
16	P-Tot (mgP/L)					
17	SiO2 (mg/L)				18.9	21.1
18	SO4 (mg/L)	27.0	25.9	16.9	27.5	26.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.2	1.2	1.1	1.3	2.3
2	COD (mg/L)		8.3	5.4	9.0	11.7
3	DO (mg/L)	7.0	5.9	6.8	6.8	7.4
4	DO_SAT% (%)	89	74	85	85	93
	TRACE & TOXIC					
1	As (µg/L)	0.5				
2	Cd (µg/L)				0.5	
3	Cr (µg/L)	1.1			8.2	
4	Cu (µg/L)	12.9			3.2	
5	Hg (µg/L)					
6	Ni (µg/L)	1.8			0.8	
7	Pb (µg/L)	1.3			1.3	
8	Zn (µg/L)	9.2			2.3	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	104	112	70	88	85
2	HAR_Total (mgCaCO3/L)	164	182	128	213	197
3	Na% (%)	27	26	19	25	24
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	1.0	1.0	0.5	1.0	0.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAVANDAPUR (CCG00E3)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	4.190	14.18	17.21	14.53	21.24
2	EC_FLD (µmho/cm)	270	380	287	260	280
3	EC_GEN (µmho/cm)	270	355	264	232	235
4	pH_FLD (pH units)	7.7	7.7	7.9	7.9	7.6
5	pH_GEN (pH units)	7.7	8.0	7.6	7.7	7.4
6	TDS (mg/L)	157	203			
7	Temp (deg C)	27.5	26.4	28.7	29.0	27.0
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	86	124	95	101	99
2	B (mg/L)	0.04	0.13	0.26	0.09	0.28
3	Ca (mg/L)	26	36	22	25	27
4	Cl (mg/L)	31.4	29.2	18.7	25.1	25.5
5	F (mg/L)	0.24	0.32	0.28	0.25	0.32
6	Fe (mg/L)	0.0	0.0	0.1	0.1	0.0
7	HCO3 (mg/L)	105	151	115	123	120
8	K (mg/L)	3.8	3.4	2.9	2.5	2.8
9	Mg (mg/L)	6.5	11.9	9.7	12.6	9.1
10	Na (mg/L)	21.7	20.1	16.9	17.7	17.1
11	NH3-N (mg N/L)	0.22	0.10	0.05	0.07	0.01
12	NO2+NO3 (mg N/L)	0.55	1.12	1.55		
13	NO2-N (mgN/L)	0.02	0.00	0.01		
14	NO3-N (mgN/L)	0.53	1.12	1.54	0.80	1.21
15	o-PO4-P (mg P/L)	0.035	0.303		0.012	0.013
16	P-Tot (mgP/L)			0.719		
17	SiO2 (mg/L)	7.7	13.1	17.6	17.8	19.4
18	SO4 (mg/L)	12.7	18.9	14.5	18.1	20.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.6	2.0	0.7	1.1	0.9
2	COD (mg/L)	10.4	7.9			
3	DO (mg/L)	6.7	6.7	7.3	6.4	5.5
4	DO_SAT% (%)	84	83	94	84	71
	TRACE & TOXIC					
1	As (µg/L)	1.9	6.9	5.0	8.1	
2	Cd (µg/L)	0.0	0.1	0.6		
3	Cr (µg/L)	0.9	1.3			
4	Cu (µg/L)	2.8	5.2		1.5	
5	Hg (µg/L)					
6	Ni (µg/L)	2.0	3.7		10.2	
7	Pb (µg/L)	1.5	1.4		1.3	
8	Zn (µg/L)	4.8	4.5	7.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	64	90	55	61	68
2	HAR_Total (mgCaCO3/L)	91	140	95	114	106
3	Na% (%)	33	23	26	25	27
4	RSC (-)	0.0	0.0	0.0	0.0	0.1
5	SAR (-)	1.0	0.7	0.7	0.7	0.7
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAVANDAPUR (CCG00E3)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	14.65	13.78	2.265	2.885
2	EC_FLD (µmho/cm)	298	199	391	310
3	EC_GEN (µmho/cm)	291	199	392	308
4	pH_FLD (pH units)	7.9	7.8	7.8	7.8
5	pH_GEN (pH units)	7.9	7.6	7.7	7.7
6	TDS (mg/L)				149
7	Temp (deg C)	29.8	29.1	29.7	25.7
	CHEMICAL				
1	ALK-TOT (mgCaCO3/L)	120	85	127	109
2	B (mg/L)	0.00			
3	Ca (mg/L)	31	18	37	29
4	Cl (mg/L)	41.1	19.9	47.3	32.7
5	F (mg/L)	0.21	0.38	0.44	0.21
6	Fe (mg/L)	0.0	0.0	0.0	0.0
7	HCO3 (mg/L)	146	103	155	133
8	K (mg/L)	3.3	2.8	4.1	3.3
9	Mg (mg/L)	12.6	10.0	12.0	12.5
10	Na (mg/L)	22.3	14.2	29.9	21.7
11	NH3-N (mg N/L)	0.05		0.29	0.13
12	NO2+NO3 (mg N/L)				
13	NO2-N (mgN/L)				
14	NO3-N (mgN/L)	1.78	0.27	0.10	0.38
15	o-PO4-P (mg P/L)	0.000			
16	P-Tot (mgP/L)				
17	SiO2 (mg/L)	26.8			
18	SO4 (mg/L)	14.9	11.1	22.5	14.0
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.1	1.2	1.3	2.2
2	COD (mg/L)			9.3	9.3
3	DO (mg/L)	7.2	6.4	6.0	6.5
4	DO_SAT% (%)	94	83	79	80
	TRACE & TOXIC				
1	As (µg/L)	1.2	0.0	4.8	4.3
2	Cd (µg/L)	0.0	0.1	0.1	0.1
3	Cr (µg/L)	2.4	2.3	0.3	0.8
4	Cu (µg/L)	2.2	2.0	0.8	1.5
5	Hg (µg/L)			0.3	
6	Ni (µg/L)		2.5	5.6	8.1
7	Pb (µg/L)	0.0	4.2	2.0	0.8
8	Zn (µg/L)	13.8	1200.0	1.3	4.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	77	45	92	73
2	HAR_Total (mgCaCO3/L)	130	87	142	125
3	Na% (%)	27	26	30	27
4	RSC (-)	0.0	0.0	0.0	0.0
5	SAR (-)	0.9	0.7	1.1	0.9
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAVANDAPUR (CCG00E3)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	17.77	12.11	2.241	6.097
2	EC_FLD (µmho/cm)	352	407	348	329
3	EC_GEN (µmho/cm)	325	420	304	341
4	pH_FLD (pH units)	7.8	7.7	7.6	7.9
5	pH_GEN (pH units)	7.9	7.8	7.3	7.9
6	TDS (mg/L)	187	239	176	194
7	Temp (deg C)	28.2	30.0	31.3	27.8
	CHEMICAL				
1	ALK-TOT (mgCaCO3/L)	121	146	91	123
2	B (mg/L)	0.03	0.14	0.05	0.10
3	Ca (mg/L)	16	39	29	26
4	Cl (mg/L)	30.9	38.8	41.9	32.3
5	F (mg/L)	0.27	0.34	0.16	0.17
6	Fe (mg/L)	0.0	0.0	0.0	0.0
7	HCO3 (mg/L)	147	178	111	150
8	K (mg/L)	3.4	3.1	3.8	3.6
9	Mg (mg/L)	22.6	17.8	6.3	16.5
10	Na (mg/L)	21.6	25.6	26.5	22.8
11	NH3-N (mg N/L)	0.09	0.07	0.19	0.04
12	NO2+NO3 (mg N/L)	2.00	3.66	0.33	0.35
13	NO2-N (mgN/L)	0.01	0.01	0.02	0.00
14	NO3-N (mgN/L)	2.00	3.65	0.31	0.35
15	o-PO4-P (mg P/L)	0.013	0.057	0.013	0.020
16	P-Tot (mgP/L)				
17	SiO2 (mg/L)	17.0	19.4	8.5	13.5
18	SO4 (mg/L)	12.7	17.9	10.3	15.9
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.3	1.8	1.4	0.9
2	COD (mg/L)	13.1	9.8	11.9	7.7
3	DO (mg/L)	6.8	7.0	5.7	7.1
4	DO_SAT% (%)	86	92	78	90
	TRACE & TOXIC				
1	As (µg/L)			3.0	0.2
2	Cd (µg/L)			0.0	0.6
3	Cr (µg/L)			2.0	0.5
4	Cu (µg/L)			3.0	0.9
5	Hg (µg/L)				
6	Ni (µg/L)				1.5
7	Pb (µg/L)			3.0	1.8
8	Zn (µg/L)			56.0	29.8
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	39	98	73	64
2	HAR_Total (mgCaCO3/L)	133	172	99	133
3	Na% (%)	26	24	36	27
4	RSC (-)	0.0	0.0	0.0	0.0
5	SAR (-)	0.8	0.9	1.2	0.9
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: THENGUMARAHADA	Code	: CCGI0E9
State	: Tamil Nadu	District	Nilgiris
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Bhavani	Sub Tributary	:
Sub-Sub Tributary	:	Local River	: Moyar
Division	: SR Division, Coimbatore	Sub-Division	: Middle Cauvery SD, Coimbatore
Drainage Area	: 1370 Sq. Km.	Bank	: Right
Latitude	: 11°34'22"	Longitude	: 76°55'09"
Zero of Gauge (m)	: 336.650 (m.s.l)	23/10/1978	
	Opening Date	Closing Date	
Gauge	: 23/10/1978		
Discharge	: 01/06/1979		
Sediment	: 01/06/2002		
Water Quality	: 01/06/1979		

Water Quality Datasheet for the period : 2017-2018

Station Name : THENGUMARAHADA (CCGI0E9)

Division : SR Division, Coimbatore

Local River : Moyar

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	1.382	4.626	2.546
2	Colour_Cod (-)	Light Brown	Clear	Clear
3	EC_FLD (μ mho/cm)	262	91	148
4	EC_GEN (μ mho/cm)	262	91	148
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.8	7.6	6.9
7	pH_GEN (pH units)	7.8	7.2	7.4
8	TDS (mg/L)	151	52	83
9	Temp (deg C)	27.0	24.5	25.0
	CHEMICAL			
1	Alk-Phen (mgCaCO ₃ /L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO ₃ /L)	65	15	34
3	B (mg/L)	0.07	0.03	0.02
4	Ca (mg/L)	27	13	17
5	Cl (mg/L)	35.8	18.9	26.4
6	CO ₃ (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.13	0.09	0.10
8	Fe (mg/L)	0.1	0.1	0.1
9	HCO ₃ (mg/L)	79	19	42
10	K (mg/L)	5.0	1.3	2.1
11	Mg (mg/L)	11.4	1.9	4.7
12	Na (mg/L)	11.5	3.8	7.5
13	NH ₃ -N (mg N/L)	0.22	0.07	0.04
14	NO ₂ +NO ₃ (mg N/L)	3.21	0.92	1.32
15	NO ₂ -N (mgN/L)	0.00	0.00	0.00
16	NO ₃ -N (mgN/L)	3.21	0.92	1.32
17	o-PO ₄ -P (mg P/L)	0.040	0.020	0.010
18	SiO ₂ (mg/L)	18.4	12.9	12.2
19	SO ₄ (mg/L)	14.7	4.3	3.5
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD ₃ -27 (mg/L)	0.8	0.6	0.4
2	COD (mg/L)	3.5	3.4	3.2
3	DO (mg/L)	8.0	7.7	7.0
4	DO_SAT% (%)	100	92	85
	TRACE & TOXIC			
1	As (μ g/L)			2.0
2	Cd (μ g/L)			0.0
3	Cr (μ g/L)			1.0
4	Cu (μ g/L)			2.0
5	Ni (μ g/L)			
6	Pb (μ g/L)			4.0
7	Zn (μ g/L)			5.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO ₃ /L)	66	31	43
2	HAR_Total (mgCaCO ₃ /L)	114	39	63
3	Na% (%)	17	17	20
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.5	0.3	0.4
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : THENGUMARAHADA (CCGI0E9)

Division : SR Division, Coimbatore

Local River : Moyar

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	8.125	6.272	9.828
2	Colour_Cod (-)	Light Brown	Light Brown	Clear
3	EC_FLD (μmho/cm)	120	195	218
4	EC_GEN (μmho/cm)	120	195	218
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.5	7.6	7.6
7	pH_GEN (pH units)	7.6	7.1	7.6
8	TDS (mg/L)	69	109	126
9	Temp (deg C)	24.5	24.0	24.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	23	41	52
3	B (mg/L)	0.05	0.08	0.05
4	Ca (mg/L)	14	20	28
5	Cl (mg/L)	18.7	35.2	35.5
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.10	0.15	0.22
8	Fe (mg/L)	0.3	0.0	0.0
9	HCO3 (mg/L)	28	50	64
10	K (mg/L)	2.1	2.2	2.3
11	Mg (mg/L)	2.8	6.5	3.7
12	Na (mg/L)	6.7	9.3	10.8
13	NH3-N (mg N/L)	0.06	0.09	0.09
14	NO2+NO3 (mg N/L)	1.42	0.37	0.12
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	1.42	0.37	0.12
17	o-PO4-P (mg P/L)	0.040	0.230	0.020
18	SiO2 (mg/L)	9.8	7.6	8.6
19	SO4 (mg/L)	7.3	9.2	6.3
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.6	1.0	0.4
2	COD (mg/L)	4.2	8.5	3.5
3	DO (mg/L)	7.7	7.9	7.1
4	DO_SAT% (%)	92	94	84
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	35	50	69
2	HAR_Total (mgCaCO3/L)	46	77	85
3	Na% (%)	23	20	21
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.4	0.5	0.5
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : THENGUMARAHADA (CCGI0E9)

Division : SR Division, Coimbatore

Local River : Moyar

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	6.723	6.448	5.785
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)	117	249	225
4	EC_GEN (μmho/cm)	117	249	225
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	6.9	7.0	7.1
7	pH_GEN (pH units)	7.4	7.5	7.4
8	TDS (mg/L)	67	143	127
9	Temp (deg C)	22.5	19.5	21.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	17	43	35
3	B (mg/L)	0.07	0.05	0.08
4	Ca (mg/L)	11	25	29
5	Cl (mg/L)	19.6	58.7	49.0
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.14	0.17	0.07
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	21	53	42
10	K (mg/L)	2.0	2.2	0.9
11	Mg (mg/L)	2.9	11.4	5.8
12	Na (mg/L)	8.2	10.9	8.1
13	NH3-N (mg N/L)	0.07	0.08	0.00
14	NO2+NO3 (mg N/L)	1.75	0.76	1.88
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	1.75	0.76	1.88
17	o-PO4-P (mg P/L)	0.060	0.050	0.000
18	SiO2 (mg/L)	10.8	6.1	4.6
19	SO4 (mg/L)	7.6	3.5	4.8
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.4	1.0	1.2
2	COD (mg/L)	4.3	5.9	2.9
3	DO (mg/L)	6.9	7.1	7.0
4	DO_SAT% (%)	79	76	79
	TRACE & TOXIC			
1	As (μg/L)	4.1		
2	Cd (μg/L)	0.0		
3	Cr (μg/L)	1.2		
4	Cu (μg/L)	14.2		
5	Ni (μg/L)	3.6		
6	Pb (μg/L)	1.4		
7	Zn (μg/L)	4.6		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	27	63	72
2	HAR_Total (mgCaCO3/L)	39	110	96
3	Na% (%)	30	17	15
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.6	0.5	0.4
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : THENGUMARAHADA (CCGI0E9)

Division : SR Division, Coimbatore

Local River : Moyar

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	5.766	4.233	4.953
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)	233	205	159
4	EC_GEN (μmho/cm)	233	205	159
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.1	7.7	6.9
7	pH_GEN (pH units)	7.1	7.7	6.9
8	TDS (mg/L)	133	118	91
9	Temp (deg C)	22.5	23.0	24.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	30	30	29
3	B (mg/L)	0.09	0.15	0.00
4	Ca (mg/L)	24	26	19
5	Cl (mg/L)	54.7	52.8	36.6
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.05	0.05	0.05
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	37	37	35
10	K (mg/L)	1.9	1.9	1.7
11	Mg (mg/L)	7.8	5.8	2.9
12	Na (mg/L)	10.6	10.1	8.4
13	NH3-N (mg N/L)	0.00	0.02	0.07
14	NO2+NO3 (mg N/L)	1.69	1.38	1.00
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	1.69	1.38	1.00
17	o-PO4-P (mg P/L)	0.000	0.000	0.000
18	SiO2 (mg/L)	3.0	2.8	3.2
19	SO4 (mg/L)	3.1	2.9	2.9
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.8	1.2	1.2
2	COD (mg/L)	4.1	9.9	7.8
3	DO (mg/L)	7.1	6.9	7.2
4	DO_SAT% (%)	82	81	85
	TRACE & TOXIC			
1	As (μg/L)		0.2	
2	Cd (μg/L)		0.2	
3	Cr (μg/L)		1.1	
4	Cu (μg/L)		0.5	
5	Ni (μg/L)		1.1	
6	Pb (μg/L)		3.4	
7	Zn (μg/L)		31.1	
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	60	64	48
2	HAR_Total (mgCaCO3/L)	93	88	60
3	Na% (%)	20	20	23
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.5	0.5	0.5
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : THENGUMARAHADA (CCGI0E9)

Division : SR Division, Coimbatore

Local River : Moyar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	39.68	1.236	7.675
2	EC_FLD (µmho/cm)	12	262	91	185
3	EC_GEN (µmho/cm)	12	262	91	185
4	pH_FLD (pH units)	12	7.8	6.9	7.3
5	pH_GEN (pH units)	12	7.8	6.9	7.4
6	TDS (mg/L)	12	151	52	106
7	Temp (deg C)	12	27.0	19.5	23.5
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	12	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	12	65	15	35
3	B (mg/L)	12	0.15	0.00	0.06
4	Ca (mg/L)	12	29	11	21
5	Cl (mg/L)	12	58.7	18.7	36.8
6	CO3 (mg/L)	12	0.0	0.0	0
7	F (mg/L)	12	0.22	0.05	0.11
8	Fe (mg/L)	12	0.3	0.0	0
9	HCO3 (mg/L)	12	79	19	42
10	K (mg/L)	12	5.0	0.9	2.1
11	Mg (mg/L)	12	11.4	1.9	5.6
12	Na (mg/L)	12	11.5	3.8	8.8
13	NH3-N (mg N/L)	12	0.22	0.00	0.07
14	NO2+NO3 (mg N/L)	12	3.21	0.12	1.32
15	NO2-N (mgN/L)	12	0.00	0.00	0
16	NO3-N (mgN/L)	12	3.21	0.12	1.32
17	o-PO4-P (mg P/L)	12	0.230	0.000	0.039
18	SiO2 (mg/L)	12	18.4	2.8	8.3
19	SO4 (mg/L)	12	14.7	2.9	5.8
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	12	1.4	0.4	0.9
2	COD (mg/L)	12	9.9	2.9	5.1
3	DO (mg/L)	12	8.0	6.9	7.3
4	DO_SAT% (%)	12	100	76	86
	TRACE & TOXIC				
1	As (µg/L)	3	4.1	0.2	2.1
2	Cd (µg/L)	3	0.2	0.0	0.1
3	Cr (µg/L)	3	1.2	1.0	1.1
4	Cu (µg/L)	3	14.2	0.5	5.6
5	Ni (µg/L)	2	3.6	1.1	2.4
6	Pb (µg/L)	3	4.0	1.4	2.9
7	Zn (µg/L)	3	31.1	4.6	13.6
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	12	72	27	52
2	HAR_Total (mgCaCO3/L)	12	114	39	76
3	Na% (%)	12	30	15	20
4	RSC (-)	12	0.0	0.0	0
5	SAR (-)	12	0.6	0.3	0.4
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THENGUMARAHADA (CCGI0E9)

Division : SR Division, Coimbatore

Local River : Moyar

Sub-Division : MCSD, Coimbatore

River Water

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	24.41	17.33	8.793	12.04	7.969
2	EC_FLD (µmho/cm)	119	151	156	143	127
3	EC_GEN (µmho/cm)	127	137	142	127	127
4	pH_FLD (pH units)	7.4	7.3	7.4	7.6	7.7
5	pH_GEN (pH units)	7.4	7.5	7.4	7.4	7.3
6	TDS (mg/L)					
7	Temp (deg C)	23.8	23.9	25.3	24.3	25.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	26	34	40	44	40
3	B (mg/L)	0.11	0.11	0.16	0.06	
4	Ca (mg/L)	13	13	15	15	17
5	Cl (mg/L)	18.1	16.1	22.1	12.3	17.6
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.14	0.07	0.17	0.24	0.19
8	Fe (mg/L)	0.1	0.1	0.2	0.3	
9	HCO3 (mg/L)	32	42	49	54	49
10	K (mg/L)	1.9	1.8	1.7	2.2	1.9
11	Mg (mg/L)	3.7	4.3	5.8	4.9	3.7
12	Na (mg/L)	5.4	5.8	5.6	5.0	5.0
13	NH3-N (mg N/L)	0.04	0.05	0.15	0.06	
14	NO2+NO3 (mg N/L)	2.30	1.90			
15	NO2-N (mgN/L)	0.05	0.02			
16	NO3-N (mgN/L)	2.25	1.88	1.53	3.00	0.67
17	o-PO4-P (mg P/L)		0.013	0.050	0.192	
18	P-Tot (mgP/L)	0.010				
19	SiO2 (mg/L)	9.2	7.7	7.8	11.7	
20	SO4 (mg/L)	6.0	5.7	2.6	6.9	4.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.8	1.2	1.1	0.8	1.4
2	COD (mg/L)					
3	DO (mg/L)	7.1	7.2	7.2	7.6	7.3
4	DO_SAT% (%)	84	84	87	91	88
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	33	33	38	38	42
2	HAR_Total (mgCaCO3/L)	48	51	63	58	58
3	Na% (%)	19	20	16	15	15
4	SAR (-)	0.3	0.4	0.3	0.3	0.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THENGUMARAHADA (CCGI0E9)

Division : SR Division, Coimbatore

Local River : Moyar

Sub-Division : MCSD, Coimbatore

River Water

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	3.972	12.30	12.97	7.852	5.045
2	EC_FLD (µmho/cm)	163	111	149	131	155
3	EC_GEN (µmho/cm)	140	112	149	143	155
4	pH_FLD (pH units)	7.2	7.3	7.1	7.8	7.4
5	pH_GEN (pH units)	7.3	7.4	7.2	7.8	7.5
6	TDS (mg/L)			80	82	90
7	Temp (deg C)	24.4	23.7	21.4	23.7	25.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	41	24	29	35	40
3	B (mg/L)				0.03	0.05
4	Ca (mg/L)	17	12	17	17	15
5	Cl (mg/L)	23.5	17.0	30.3	21.3	23.1
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.11	0.08	0.06	0.10	0.14
8	Fe (mg/L)		0.1		0.1	0.0
9	HCO3 (mg/L)	50	29	36	42	49
10	K (mg/L)	2.3	1.2	1.9	2.2	2.7
11	Mg (mg/L)	5.4	4.1	5.3	4.8	6.1
12	Na (mg/L)	5.7	3.0	6.9	6.5	8.6
13	NH3-N (mg N/L)		0.18	0.14	0.19	0.20
14	NO2+NO3 (mg N/L)				2.53	1.67
15	NO2-N (mgN/L)				0.02	0.00
16	NO3-N (mgN/L)	0.50	0.74	1.15	2.51	1.67
17	o-PO4-P (mg P/L)				0.030	0.060
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				10.6	9.3
20	SO4 (mg/L)	4.1	5.0	6.7	7.3	5.7
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.0	0.9	1.0	1.1	1.0
2	COD (mg/L)		6.0	5.7	6.9	6.2
3	DO (mg/L)	6.8	7.4	10.6	7.0	7.2
4	DO_SAT% (%)	81	87	86	83	87
	TRACE & TOXIC					
1	As (µg/L)	2.7	3.2			
2	Cd (µg/L)	0.1	0.0			
3	Cr (µg/L)	3.6	1.8			
4	Cu (µg/L)	11.4	1.5			
5	Hg (µg/L)		0.4			
6	Ni (µg/L)	2.4	9.6			
7	Pb (µg/L)	1.1	0.9			
8	Zn (µg/L)	1.2	9.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	42	29	42	44	37
2	HAR_Total (mgCaCO3/L)	64	46	65	64	62
3	Na% (%)	16	12	19	17	22
4	SAR (-)	0.3	0.2	0.4	0.4	0.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THENGUMARAHADA (CCGI0E9)

Division : SR Division, Coimbatore

Local River : Moyar

Sub-Division : MCS D, Coimbatore

River Water

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	4.590	6.914	7.640	10.90	13.37
2	EC_FLD (µmho/cm)	163	139	183	167	145
3	EC_GEN (µmho/cm)	163	182	176	143	143
4	pH_FLD (pH units)	7.5	7.4	7.5	7.7	7.6
5	pH_GEN (pH units)	7.4	7.5	7.4	7.7	7.7
6	TDS (mg/L)	93				
7	Temp (deg C)	25.0	22.3	21.5	23.4	21.6
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	36	43	50	43	44
3	B (mg/L)	0.05	0.15	0.07	0.14	0.09
4	Ca (mg/L)	18	19	22	18	19
5	Cl (mg/L)	27.0	23.3	28.8	23.0	18.2
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.11	0.18	0.18	0.27	0.06
8	Fe (mg/L)	0.1	0.1	0.5	0.2	0.0
9	HCO3 (mg/L)	43	53	62	53	54
10	K (mg/L)	2.5	1.5	1.4	1.2	2.2
11	Mg (mg/L)	5.5	5.6	7.4	5.1	3.6
12	Na (mg/L)	7.8	6.5	8.5	5.0	5.5
13	NH3-N (mg N/L)	0.09	0.04		0.08	0.00
14	NO2+NO3 (mg N/L)	1.45	2.76			
15	NO2-N (mgN/L)	0.00	0.01			
16	NO3-N (mgN/L)	1.45	2.75	1.30	1.17	3.12
17	o-PO4-P (mg P/L)	0.068		0.010	0.027	0.090
18	P-Tot (mgP/L)		0.048			
19	SiO2 (mg/L)	12.2	9.5	0.6	12.4	9.1
20	SO4 (mg/L)	7.8	4.9	6.0	1.0	5.7
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.6	2.2	1.7	0.8	1.3
2	COD (mg/L)	4.6				
3	DO (mg/L)	7.7	7.2	7.2	7.1	7.3
4	DO_SAT% (%)	92	83	82	83	82
	TRACE & TOXIC					
1	As (µg/L)	2.0				
2	Cd (µg/L)	0.0				
3	Cr (µg/L)	1.0				
4	Cu (µg/L)	2.0				
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)	4.0				
8	Zn (µg/L)	5.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	45	47	56	45	48
2	HAR_Total (mgCaCO3/L)	68	70	86	66	63
3	Na% (%)	20	16	17	14	15
4	SAR (-)	0.4	0.3	0.4	0.3	0.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THENGUMARAHADA (CCGI0E9)

Division : SR Division, Coimbatore

Local River : Moyar

Sub-Division : MCSD, Coimbatore

River Water

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	10.43	22.14	9.082	9.848	8.005
2	EC_FLD (µmho/cm)	129	269	153	158	164
3	EC_GEN (µmho/cm)	130	267	158	158	181
4	pH_FLD (pH units)	7.4	7.2	7.3	7.5	7.2
5	pH_GEN (pH units)	7.2	7.2	7.5	7.6	7.5
6	TDS (mg/L)				90	104
7	Temp (deg C)	22.1	21.8	21.5	21.3	21.6
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	1.9	0.0
2	ALK-TOT (mgCaCO3/L)	41	47	39	37	40
3	B (mg/L)				0.00	0.04
4	Ca (mg/L)	17	33	16	15	21
5	Cl (mg/L)	20.5	54.8	22.6	29.2	28.9
6	CO3 (mg/L)	0.0	0.0	0.0	2.3	0.0
7	F (mg/L)	0.14	0.06	0.07	0.09	0.11
8	Fe (mg/L)	0.1			0.0	0.0
9	HCO3 (mg/L)	49	57	47	40	49
10	K (mg/L)	1.2	2.0	1.1	1.3	1.9
11	Mg (mg/L)	5.1	8.3	5.8	7.8	6.9
12	Na (mg/L)	4.1	9.1	6.6	6.6	7.8
13	NH3-N (mg N/L)		0.16	0.19	0.18	0.24
14	NO2+NO3 (mg N/L)				1.91	2.91
15	NO2-N (mgN/L)				0.02	0.04
16	NO3-N (mgN/L)	0.37	1.32	1.29	1.93	2.87
17	o-PO4-P (mg P/L)				0.000	0.100
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				6.7	11.7
20	SO4 (mg/L)	3.1	9.8	3.8	3.3	7.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.7	1.4	0.9	1.2	1.6
2	COD (mg/L)		7.3	3.4	7.9	12.6
3	DO (mg/L)	7.7	7.7	6.6	7.2	6.7
4	DO_SAT% (%)	88	88	74	81	75
	TRACE & TOXIC					
1	As (µg/L)	0.6				
2	Cd (µg/L)				0.6	
3	Cr (µg/L)	0.6			9.7	
4	Cu (µg/L)	14.1			3.4	
5	Hg (µg/L)					
6	Ni (µg/L)				0.4	
7	Pb (µg/L)	1.0			0.9	
8	Zn (µg/L)	1.3			2.3	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	42	83	39	38	52
2	HAR_Total (mgCaCO3/L)	63	118	63	71	81
3	Na% (%)	12	15	18	18	17
4	SAR (-)	0.2	0.4	0.4	0.3	0.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THENGUMARAHADA (CCGI0E9)

Division : SR Division, Coimbatore

Local River : Moyar

Sub-Division : MCSD, Coimbatore

River Water

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	2.169	7.196	10.33	6.594	8.958
2	EC_FLD (µmho/cm)	271	202	164	188	159
3	EC_GEN (µmho/cm)	271	202	169	155	119
4	pH_FLD (pH units)	7.2	7.1	7.3	7.1	7.6
5	pH_GEN (pH units)	7.3	7.4	7.5	7.1	7.3
6	TDS (mg/L)	157	116			
7	Temp (deg C)	22.5	21.9	24.4	24.0	25.7
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	39	37	34	31	35
3	B (mg/L)	0.03	0.06	0.17	0.11	0.64
4	Ca (mg/L)	36	23	18	24	17
5	Cl (mg/L)	66.2	40.7	31.4	43.5	20.5
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.15	0.15		0.11	0.26
8	Fe (mg/L)	0.0	0.0	0.1	0.1	0.7
9	HCO3 (mg/L)	48	45	41	38	42
10	K (mg/L)	1.8	1.8	1.3	1.3	1.6
11	Mg (mg/L)	7.4	6.0	5.8	4.6	2.6
12	Na (mg/L)	9.5	9.5	5.1	5.9	4.6
13	NH3-N (mg N/L)	0.18	0.06	0.03	0.11	0.02
14	NO2+NO3 (mg N/L)	1.79	1.13	1.80		
15	NO2-N (mgN/L)	0.03	0.00	0.01		
16	NO3-N (mgN/L)	1.76	1.13	1.79	0.93	1.03
17	o-PO4-P (mg P/L)	0.032	0.032		0.018	0.012
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)	5.4	7.5	8.1	5.1	5.9
20	SO4 (mg/L)	3.0	5.5	4.0	1.1	2.8
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.6	1.0	1.0	1.4	1.8
2	COD (mg/L)	10.6	4.2			
3	DO (mg/L)	7.1	7.0	7.1	7.9	6.9
4	DO_SAT% (%)	82	80	84	93	84
	TRACE & TOXIC					
1	As (µg/L)	1.4	4.1	3.6		
2	Cd (µg/L)	0.0	0.0	0.6		
3	Cr (µg/L)	1.7	1.2			
4	Cu (µg/L)	0.1	14.2		1.5	
5	Hg (µg/L)					
6	Ni (µg/L)	1.5	3.6		11.9	
7	Pb (µg/L)	1.3	1.4	1.4	1.0	
8	Zn (µg/L)	10.0	4.6	7.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	90	58	45	60	43
2	HAR_Total (mgCaCO3/L)	121	83	70	79	54
3	Na% (%)	14	21	14	14	15
4	SAR (-)	0.4	0.5	0.3	0.3	0.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THENGUMARAHADA (CCGI0E9)

Division : SR Division, Coimbatore

Local River : Moyar

Sub-Division : MCSD, Coimbatore

River Water

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	5.391	4.917	5.216	7.132
2	EC_FLD (µmho/cm)	142	156	230	158
3	EC_GEN (µmho/cm)	153	136	224	172
4	pH_FLD (pH units)	7.5	7.0	7.1	7.4
5	pH_GEN (pH units)	7.5	7.1	7.1	7.4
6	TDS (mg/L)				82
7	Temp (deg C)	24.2	23.5	24.8	23.3
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	39	37	27	39
3	B (mg/L)	0.00			
4	Ca (mg/L)	19	17	30	20
5	Cl (mg/L)	23.8	29.4	61.6	34.0
6	CO3 (mg/L)	0.0	0.0	0.0	0.0
7	F (mg/L)	0.11	0.24	0.22	0.05
8	Fe (mg/L)	0.0	0.0	0.0	0.1
9	HCO3 (mg/L)	47	45	32	48
10	K (mg/L)	1.6	2.5	1.2	1.9
11	Mg (mg/L)	3.9	5.5	8.1	5.2
12	Na (mg/L)	6.5	5.9	5.6	8.1
13	NH3-N (mg N/L)	0.03		0.23	0.68
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)	1.82	0.52	0.49	1.21
17	o-PO4-P (mg P/L)	0.000			
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	7.6			
20	SO4 (mg/L)	4.3	3.0	1.5	1.9
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.5	1.7	0.6	1.1
2	COD (mg/L)			3.7	9.1
3	DO (mg/L)	6.7	7.7	7.5	6.7
4	DO_SAT% (%)	80	90	90	78
	TRACE & TOXIC				
1	As (µg/L)	1.4	0.1	4.5	1.4
2	Cd (µg/L)	0.0	0.2	0.0	0.1
3	Cr (µg/L)	5.6	3.5	0.3	1.5
4	Cu (µg/L)	2.6	3.0	0.8	22.3
5	Hg (µg/L)			0.5	
6	Ni (µg/L)		3.1	3.9	6.8
7	Pb (µg/L)	0.7	4.3	1.1	0.9
8	Zn (µg/L)	31.4	126.0	1.1	8.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	48	43	75	49
2	HAR_Total (mgCaCO3/L)	64	66	109	70
3	Na% (%)	17	16	11	19
4	SAR (-)	0.4	0.3	0.2	0.4
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THENGUMARAHADA (CCGI0E9)

Division : SR Division, Coimbatore

Local River : Moyar

Sub-Division : MCSD, Coimbatore

River Water

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	8.440	7.260	3.547	4.984
2	EC_FLD (µmho/cm)	182	206	317	199
3	EC_GEN (µmho/cm)	180	206	317	199
4	pH_FLD (pH units)	7.4	7.1	7.1	7.2
5	pH_GEN (pH units)	7.5	7.2	7.2	7.2
6	TDS (mg/L)	104	118	185	114
7	Temp (deg C)	23.0	23.7	24.2	23.2
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	37	24	39	30
3	B (mg/L)	0.00	0.07	0.05	0.08
4	Ca (mg/L)	13	27	31	23
5	Cl (mg/L)	36.6	52.2	81.2	48.1
6	CO3 (mg/L)	0.0	0.0	0.0	0.0
7	F (mg/L)	0.08	0.02	0.09	0.05
8	Fe (mg/L)	0.0	0.0	0.0	0.0
9	HCO3 (mg/L)	45	29	47	36
10	K (mg/L)	1.7	1.2	1.7	1.8
11	Mg (mg/L)	11.3	5.7	14.2	5.5
12	Na (mg/L)	7.3	7.9	11.3	9.7
13	NH3-N (mg N/L)	0.15	0.15	0.23	0.03
14	NO2+NO3 (mg N/L)	1.85	2.27	1.63	1.36
15	NO2-N (mgN/L)	0.01	0.00	0.02	0.00
16	NO3-N (mgN/L)	1.84	2.27	1.61	1.36
17	o-PO4-P (mg P/L)	0.040	0.023	0.010	0.000
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	5.2	3.8	5.2	3.0
20	SO4 (mg/L)	3.4	3.6	2.2	2.9
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.2	1.3	1.4	1.0
2	COD (mg/L)	6.2	10.6	4.9	7.3
3	DO (mg/L)	6.8	7.3	6.9	7.1
4	DO_SAT% (%)	79	87	82	83
	TRACE & TOXIC				
1	As (µg/L)			8.0	0.2
2	Cd (µg/L)			0.0	0.2
3	Cr (µg/L)			1.0	1.1
4	Cu (µg/L)			3.0	0.5
5	Hg (µg/L)				
6	Ni (µg/L)				1.1
7	Pb (µg/L)			1.0	3.3
8	Zn (µg/L)			9.0	31.1
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	32	68	77	57
2	HAR_Total (mgCaCO3/L)	79	92	136	80
3	Na% (%)	17	16	15	21
4	SAR (-)	0.4	0.4	0.4	0.5
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: GANDHAVAYAL	Code	: CCG20C8
State	: Tamil Nadu	District	Coimbatore
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Bhavani	Sub Tributary	: Gandhayar
Sub-Sub Tributary	: -	Local River	: Gandhayar
Division	: SR Division, Coimbatore	Sub-Division	: Middle Cauvery SD, Coimbatore
Drainage Area	: 90.71 Sq. Km.	Bank	: Right
Latitude	: 11°22'27"	Longitude	: 76°59'32"
Zero of Gauge (m)	: 92.000 (m.s.l)	15/03/2013	
	Opening Date	Closing Date	
Gauge	: 15/03/2013		
Discharge	: 15/03/2013		
Sediment	:		
Water Quality	: 01/04/2013		

Water Quality Datasheet for the period : 2017-2018

Station Name : GANDHAVAYAL (CCG20C8)

Division :SR Division, Coimbatore

Local River : Gandhayar

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.124	0.124	No Flow
2	Colour_Cod (-)	Clear	Clear	
3	EC_GEN (µmho/cm)	326	365	
4	Odour_Code (-)	odour free	odour free	
5	pH_GEN (pH units)	7.9	7.7	
6	TDS (mg/L)	188	211	
7	Temp (deg C)	26.0	25.0	
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	
2	ALK-TOT (mgCaCO3/L)	122	137	
3	B (mg/L)	0.06	0.07	
4	Ca (mg/L)	25	30	
5	Cl (mg/L)	24.5	28.3	
6	CO3 (mg/L)	0.0	0.0	
7	F (mg/L)	0.20	0.22	
8	Fe (mg/L)	0.0	0.0	
9	HCO3 (mg/L)	149	167	
10	K (mg/L)	3.0	3.2	
11	Mg (mg/L)	19.0	21.8	
12	Na (mg/L)	13.4	15.6	
13	NH3-N (mg N/L)	0.11	0.27	
14	NO2+NO3 (mg N/L)	2.28	2.91	
15	NO2-N (mgN/L)	0.06	0.00	
16	NO3-N (mgN/L)	2.22	2.91	
17	o-PO4-P (mg P/L)	0.010	0.010	
18	SiO2 (mg/L)	41.3	42.1	
19	SO4 (mg/L)	10.1	12.8	
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)	3.4	2.0	
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	63	74	
2	HAR_Total (mgCaCO3/L)	142	165	
3	Na% (%)	17	17	
4	RSC (-)	0.0	0.0	
5	SAR (-)	0.5	0.5	
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : GANDHAVAYAL (CCG20C8)

Division :SR Division, Coimbatore

Local River : Gandhayar

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.046	1.196	2.196
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (μmho/cm)	442	174	139
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.3	7.6	7.7
6	TDS (mg/L)	253	101	80
7	Temp (deg C)	25.0	24.0	24.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	177	60	45
3	B (mg/L)	0.09	0.02	0.05
4	Ca (mg/L)	26	12	12
5	Cl (mg/L)	28.0	18.5	15.0
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.29	0.19	0.21
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	216	73	55
10	K (mg/L)	3.7	2.0	1.7
11	Mg (mg/L)	32.7	9.3	4.7
12	Na (mg/L)	15.4	10.9	9.1
13	NH3-N (mg N/L)	0.07	0.44	0.10
14	NO2+NO3 (mg N/L)	1.22	0.15	0.05
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	1.22	0.15	0.05
17	o-PO4-P (mg P/L)	0.020	0.020	0.070
18	SiO2 (mg/L)	31.3	13.8	13.1
19	SO4 (mg/L)	13.5	7.2	5.0
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)	3.5	3.7	3.4
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	66	31	31
2	HAR_Total (mgCaCO3/L)	202	69	50
3	Na% (%)	14	25	28
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.5	0.6	0.6
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : GANDHAVAYAL (CCG20C8)

Division :SR Division, Coimbatore

Local River : Gandhayar

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	13.08	1.363	0.537
2	Colour_Cod (-)	Light Brown	Clear	Clear
3	EC_GEN (μmho/cm)	82	150	205
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.7	7.6	8.1
6	TDS (mg/L)	48	86	116
7	Temp (deg C)	23.0	23.0	24.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	26	52	74
3	B (mg/L)	0.08	0.07	0.07
4	Ca (mg/L)	8	13	21
5	Cl (mg/L)	7.8	13.7	17.0
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.10	0.14	0.22
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	32	63	90
10	K (mg/L)	2.5	1.3	1.7
11	Mg (mg/L)	1.9	6.7	6.8
12	Na (mg/L)	4.9	9.3	11.6
13	NH3-N (mg N/L)	0.10	0.09	0.00
14	NO2+NO3 (mg N/L)	0.37	0.60	0.91
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	0.37	0.60	0.91
17	o-PO4-P (mg P/L)	0.020	0.020	0.000
18	SiO2 (mg/L)	11.1	15.4	16.1
19	SO4 (mg/L)	4.5	6.8	7.1
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)	4.1	5.6	7.1
	TRACE & TOXIC			
1	As (μg/L)	4.2		
2	Cd (μg/L)	0.1		
3	Cr (μg/L)	1.4		
4	Cu (μg/L)	3.1		
5	Ni (μg/L)	3.7		
6	Pb (μg/L)	1.8		
7	Zn (μg/L)	1.5		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	20	31	52
2	HAR_Total (mgCaCO3/L)	28	59	80
3	Na% (%)	26	25	23
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.4	0.5	0.6
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : GANDHAVAYAL (CCG20C8)

Division :SR Division, Coimbatore

Local River : Gandhayar

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.223	0.171	0.537
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (μmho/cm)	314	288	169
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.5	8.2	7.9
6	TDS (mg/L)	178	165	96
7	Temp (deg C)	25.0	25.0	26.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	130	117	70
3	B (mg/L)	0.08	0.15	0.00
4	Ca (mg/L)	26	29	16
5	Cl (mg/L)	24.5	22.6	13.5
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.16	0.14	0.09
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	159	143	85
10	K (mg/L)	2.5	3.1	2.9
11	Mg (mg/L)	19.4	12.6	7.7
12	Na (mg/L)	13.9	14.2	7.5
13	NH3-N (mg N/L)	0.04	0.05	0.07
14	NO2+NO3 (mg N/L)	1.15	0.92	0.53
15	NO2-N (mgN/L)	0.00	0.01	0.00
16	NO3-N (mgN/L)	1.15	0.91	0.53
17	o-PO4-P (mg P/L)	0.000	0.010	0.000
18	SiO2 (mg/L)	21.8	21.8	13.8
19	SO4 (mg/L)	9.7	9.1	5.6
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)	2.4	11.6	4.7
	TRACE & TOXIC			
1	As (μg/L)		0.2	
2	Cd (μg/L)		0.9	
3	Cr (μg/L)		6.5	
4	Cu (μg/L)		0.8	
5	Ni (μg/L)		0.2	
6	Pb (μg/L)		1.5	
7	Zn (μg/L)		28.4	
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	64	72	40
2	HAR_Total (mgCaCO3/L)	145	125	72
3	Na% (%)	17	19	18
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.5	0.6	0.4
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : GANDHAVAYAL (CCG20C8)

Division : SR Division, Coimbatore

Local River : Gandhayar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	366	33.01	0.000	1.915
2	EC_GEN (µmho/cm)	11	442	82	241
3	pH_GEN (pH units)	11	8.2	7.3	7.8
4	TDS (mg/L)	11	253	48	138
5	Temp (deg C)	11	26.0	23.0	24.5
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	11	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	11	177	26	92
3	B (mg/L)	11	0.15	0.00	0.07
4	Ca (mg/L)	11	30	8	20
5	Cl (mg/L)	11	28.3	7.8	19.4
6	CO3 (mg/L)	11	0.0	0.0	0
7	F (mg/L)	11	0.29	0.09	0.18
8	Fe (mg/L)	11	0.0	0.0	0
9	HCO3 (mg/L)	11	216	32	112
10	K (mg/L)	11	3.7	1.3	2.5
11	Mg (mg/L)	11	32.7	1.9	13
12	Na (mg/L)	11	15.6	4.9	11.4
13	NH3-N (mg N/L)	11	0.44	0.00	0.12
14	NO2+NO3 (mg N/L)	11	2.91	0.05	1.01
15	NO2-N (mgN/L)	11	0.06	0.00	0.01
16	NO3-N (mgN/L)	11	2.91	0.05	1
17	o-PO4-P (mg P/L)	11	0.070	0.000	0.016
18	SiO2 (mg/L)	11	42.1	11.1	22
19	SO4 (mg/L)	11	13.5	4.5	8.3
	BIOLOGICAL/BACTERIOLOGICAL				
1	COD (mg/L)	11	11.6	2.0	4.7
	TRACE & TOXIC				
1	As (µg/L)	2	4.2	0.2	2.2
2	Cd (µg/L)	2	0.9	0.1	0.5
3	Cr (µg/L)	2	6.5	1.4	3.9
4	Cu (µg/L)	2	3.1	0.8	1.9
5	Ni (µg/L)	2	3.7	0.2	2
6	Pb (µg/L)	2	1.8	1.5	1.6
7	Zn (µg/L)	2	28.4	1.5	14.9
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	11	74	20	49
2	HAR_Total (mgCaCO3/L)	11	202	28	103
3	Na% (%)	11	28	14	21
4	RSC (-)	11	0.0	0.0	0
5	SAR (-)	11	0.6	0.4	0.5
	PESTICIDES				

Water Quality Seasonal Average for the period: 2013-2018

Station Name : GANDHAVAYAL (CCG20C8)

Division : SR Division, Coimbatore

Local River : Gandhayar

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Flood				
		Jun - Oct				
		2013	2014	2015	2016	2017
	PHYSICAL					
1	Q (cumec)	0.168	1.863	2.081	0.130	0.298
2	EC_GEN (µmho/cm)	256	205	161	259	327
3	pH_GEN (pH units)	7.8	7.8	7.9	7.6	7.6
4	TDS (mg/L)		111	93	149	188
5	Temp (deg C)	26.0	23.0	23.2		25.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	1.5	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	111	79	51	100	124
3	B (mg/L)			0.03	0.05	0.06
4	Ca (mg/L)	27	20	17	19	23
5	Cl (mg/L)	18.3	19.4	15.0	20.0	24.8
6	CO3 (mg/L)	0.0	0.0	1.8	0.0	0.0
7	F (mg/L)	0.18	0.13	0.10	0.17	0.22
8	Fe (mg/L)			0.0	0.0	0.0
9	HCO3 (mg/L)	136	96	59	122	151
10	K (mg/L)	2.5	2.5	2.6	3.0	3.0
11	Mg (mg/L)	14.6	9.8	5.8	15.3	20.7
12	Na (mg/L)	10.1	10.9	9.4	12.5	13.8
13	NH3-N (mg N/L)	0.16	0.14	0.15	0.17	0.22
14	NO2+NO3 (mg N/L)			2.59	1.24	1.64
15	NO2-N (mgN/L)			0.01	0.00	0.01
16	NO3-N (mgN/L)	0.35	1.25	2.58	1.24	1.62
17	o-PO4-P (mg P/L)			0.016	0.060	0.015
18	SiO2 (mg/L)			16.4	22.3	32.1
19	SO4 (mg/L)	7.9	6.4	6.6	9.9	10.9
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)	13.5	6.1	6.0	7.1	3.2
3	DO (mg/L)			0.0		
4	DO_SAT% (%)			0		
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	67	50	42	47	58
2	HAR_Total (mgCaCO3/L)	127	90	66	111	145
3	Na% (%)	16	22	24	20	18
4	SAR (-)	0.4	0.5	0.5	0.5	0.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2013-2018

Station Name : GANDHAVAYAL (CCG20C8)

Division : SR Division, Coimbatore

Local River : Gandhayar

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Winter				
		Nov - Feb				
		2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
	PHYSICAL					
1	Q (cumec)	3.014	3.013	5.283	0.200	4.294
2	EC_GEN (µmho/cm)	161	129	139	284	144
3	pH_GEN (pH units)	7.7	7.8	7.8	7.6	7.8
4	TDS (mg/L)		73	80	164	83
5	Temp (deg C)	23.5	20.0	21.3		23.5
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	1.9	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	60	41	42	113	49
3	B (mg/L)		0.00	0.01	0.03	0.07
4	Ca (mg/L)	15	12	14	31	13
5	Cl (mg/L)	12.4	13.2	12.8	19.4	13.4
6	CO3 (mg/L)	0.0	2.3	0.0	0.0	0.0
7	F (mg/L)	0.11	0.07	0.15	0.14	0.17
8	Fe (mg/L)		0.0	0.0	0.1	0.0
9	HCO3 (mg/L)	73	46	51	138	60
10	K (mg/L)	1.8	1.4	1.8	2.6	1.8
11	Mg (mg/L)	8.2	5.3	5.3	12.1	5.0
12	Na (mg/L)	7.2	8.0	7.9	12.5	8.7
13	NH3-N (mg N/L)	0.10	0.17	0.19	0.29	0.07
14	NO2+NO3 (mg N/L)	2.27	1.92	2.37	1.01	0.48
15	NO2-N (mgN/L)	0.01	0.00	0.00	0.02	0.00
16	NO3-N (mgN/L)	1.05	2.13	2.37	0.99	0.48
17	o-PO4-P (mg P/L)		0.000	0.053	0.033	0.027
18	SiO2 (mg/L)		18.2	18.0	27.9	13.9
19	SO4 (mg/L)	7.7	3.7	6.8	11.2	5.8
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		1.3			
2	COD (mg/L)	6.4	7.8	8.3	8.6	5.0
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)				0.3	4.2
2	Cd (µg/L)		2.3		0.0	0.1
3	Cr (µg/L)		7.8		1.8	1.4
4	Cu (µg/L)		1.3		1.3	3.1
5	Ni (µg/L)		0.3		1.6	3.7
6	Pb (µg/L)		1.1		1.4	1.8
7	Zn (µg/L)		2.3		4.6	1.5
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	37	30	36	76	33
2	HAR_Total (mgCaCO3/L)	71	52	57	127	54
3	Na% (%)	19	25	23	18	25
4	SAR (-)	0.4	0.5	0.5	0.5	0.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2013-2018

Station Name : GANDHAVAYAL (CCG20C8)

Division : SR Division, Coimbatore

Local River : Gandhayar

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Summer				
		Mar - May				
		2014	2015	2016	2017	2018
	PHYSICAL					
1	Q (cumec)	0.160	2.220	0.122	0.053	0.310
2	EC_GEN (µmho/cm)	228	143	398	371	257
3	pH_GEN (pH units)	7.4	7.7	7.9	7.6	7.9
4	TDS (mg/L)	121	82	226	217	146
5	Temp (deg C)	22.7	22.2	25.0		25.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	2.6	5.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	86	42	157	153	106
3	B (mg/L)		0.02	0.06	0.04	0.08
4	Ca (mg/L)	22	12	37	33	24
5	Cl (mg/L)	21.4	16.1	24.9	22.9	20.2
6	CO3 (mg/L)	0.0	3.1	6.0	0.0	0.0
7	F (mg/L)	0.13	0.08	0.15	0.17	0.13
8	Fe (mg/L)	0.1	0.0	0.0	0.0	0.0
9	HCO3 (mg/L)	105	45	179	186	129
10	K (mg/L)	2.6	2.4	3.2	3.7	2.8
11	Mg (mg/L)	11.2	6.7	23.2	19.0	13.3
12	Na (mg/L)	11.3	9.1	14.8	14.7	11.9
13	NH3-N (mg N/L)	0.11	0.16	0.10	0.24	0.05
14	NO2+NO3 (mg N/L)		2.39	5.10	1.10	0.87
15	NO2-N (mgN/L)		0.01	0.01	0.02	0.00
16	NO3-N (mgN/L)	1.28	2.38	5.09	1.08	0.86
17	o-PO4-P (mg P/L)		0.030	0.060	0.020	0.003
18	SiO2 (mg/L)		15.3	32.1	29.8	19.1
19	SO4 (mg/L)	8.3	5.5	15.8	11.5	8.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)	8.3	6.5	4.7	10.5	6.2
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)	0.5				0.2
2	Cd (µg/L)	0.0				0.9
3	Cr (µg/L)	1.8				6.5
4	Cu (µg/L)	7.5				0.8
5	Ni (µg/L)	9.0				0.2
6	Pb (µg/L)	0.1				1.5
7	Zn (µg/L)	9.0				28.4
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	56	29	92	82	59
2	HAR_Total (mgCaCO3/L)	102	57	188	161	114
3	Na% (%)	19	25	16	16	18
4	SAR (-)	0.5	0.5	0.5	0.5	0.5
	PESTICIDES					

HISTORY SHEET

		Water Year	: 2017-2018
Site	: NELLITHURAI	Code	: CCG00Q8
State	: Tamil Nadu	District	Coimbatore
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Bhavani	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Bhavani
Division	: SR Division, Coimbatore	Sub-Division	: Middle Cauvery SD, Coimbatore
Drainage Area	: 1475 Sq. Km.	Bank	: Right
Latitude	: 11°17'16"	Longitude	: 76°53'28"
Zero of Gauge (m)	300.000 (m.s.l) 299.000 (m.s.l) 301.000 (m.s.l)	23/05/1978 01/06/1983 01/06/1990	- 31/05/1983 - 31/05/1990
	Opening Date	Closing Date	
Gauge	: 23/05/1978		
Discharge	: 01/06/1979		
Sediment	: 01/07/2002		
Water Quality	: 01/06/1979		

Water Quality Datasheet for the period : 2017-2018

Station Name : NELLITHURAI (CCG00Q8)

Division : SR Division, Coimbatore

Local River : Bhavani

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_FLD (μmho/cm)			
4	EC_GEN (μmho/cm)			
5	Odour_Code (-)			
6	pH_FLD (pH units)			
7	pH_GEN (pH units)			
8	TDS (mg/L)			
9	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : NELLITHURAI (CCG00Q8)

Division : SR Division, Coimbatore

Local River : Bhavani

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_FLD (μ mho/cm)			
4	EC_GEN (μ mho/cm)			
5	Odour_Code (-)			
6	pH_FLD (pH units)			
7	pH_GEN (pH units)			
8	TDS (mg/L)			
9	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO ₃ /L)			
2	ALK-TOT (mgCaCO ₃ /L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO ₃ (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO ₃ (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH ₃ -N (mg N/L)			
14	NO ₂ +NO ₃ (mg N/L)			
15	NO ₂ -N (mgN/L)			
16	NO ₃ -N (mgN/L)			
17	o-PO ₄ -P (mg P/L)			
18	SiO ₂ (mg/L)			
19	SO ₄ (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD ₃₋₂₇ (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μ g/L)			
2	Cd (μ g/L)			
3	Cr (μ g/L)			
4	Cu (μ g/L)			
5	Ni (μ g/L)			
6	Pb (μ g/L)			
7	Zn (μ g/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO ₃ /L)			
2	HAR_Total (mgCaCO ₃ /L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : NELLITHURAI (CCG00Q8)

Division : SR Division, Coimbatore

Local River : Bhavani

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_FLD (μmho/cm)			
4	EC_GEN (μmho/cm)			
5	Odour_Code (-)			
6	pH_FLD (pH units)			
7	pH_GEN (pH units)			
8	TDS (mg/L)			
9	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : NELLITHURAI (CCG00Q8)

Division : SR Division, Coimbatore

Local River : Bhavani

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_FLD (μmho/cm)			
4	EC_GEN (μmho/cm)			
5	Odour_Code (-)			
6	pH_FLD (pH units)			
7	pH_GEN (pH units)			
8	TDS (mg/L)			
9	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NELLITHURAI (CCG00Q8)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	172.3	61.99	29.93	122.1	57.10
2	EC_FLD (µmho/cm)	66	71	67	121	67
3	EC_GEN (µmho/cm)	71	59	69	62	55
4	pH_FLD (pH units)	8.0	8.0	7.7	7.5	7.6
5	pH_GEN (pH units)	7.6	7.6	7.9	7.3	7.9
6	TDS (mg/L)					
7	Temp (deg C)	22.7	23.0	25.1	23.5	23.7
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.9
2	ALK-TOT (mgCaCO3/L)	22	19	28	22	20
3	B (mg/L)	0.11	0.10	0.20	0.11	
4	Ca (mg/L)	5	4	6	5	6
5	Cl (mg/L)	5.7	5.0	6.9	7.1	6.3
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	1.1
7	F (mg/L)	0.13	0.08	0.13	0.34	0.18
8	Fe (mg/L)	0.1	0.1	0.1	0.1	
9	HCO3 (mg/L)	26	24	35	26	22
10	K (mg/L)	1.0	0.8	0.9	0.9	0.9
11	Mg (mg/L)	2.9	2.9	2.7	2.7	1.6
12	Na (mg/L)	4.2	3.5	3.8	4.4	3.8
13	NH3-N (mg N/L)	0.04	0.05	0.09	0.06	
14	NO2+NO3 (mg N/L)	1.36	0.91			
15	NO2-N (mgN/L)	0.03	0.01			
16	NO3-N (mgN/L)	1.33	0.90	0.64	1.60	0.32
17	o-PO4-P (mg P/L)		0.010	0.018	0.130	
18	P-Tot (mgP/L)	0.010				
19	SiO2 (mg/L)	8.4	5.6	8.2	5.7	
20	SO4 (mg/L)	3.7	3.4	1.6	1.9	1.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.5	0.6	0.9	0.7	0.6
2	COD (mg/L)					
3	DO (mg/L)	7.8	8.1	8.0	8.1	7.9
4	DO_SAT% (%)	90	94	97	94	93
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	14	10	16	13	16
2	HAR_Total (mgCaCO3/L)	26	23	27	24	23
3	Na% (%)	25	26	23	27	27
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.4	0.3	0.3	0.4	0.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NELLITHURAI (CCG00Q8)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	37.99	69.57	86.38	58.52	18.06
2	EC_FLD (µmho/cm)	51	64	51	89	76
3	EC_GEN (µmho/cm)	47	52	48	86	90
4	pH_FLD (pH units)	7.4	7.6	7.7	7.5	7.5
5	pH_GEN (pH units)	7.5	7.5	7.5	7.5	7.5
6	TDS (mg/L)			26	50	52
7	Temp (deg C)	24.7	22.2	23.0	23.1	22.8
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	17	17	18	21	28
3	B (mg/L)				0.02	
4	Ca (mg/L)	4	5	4	8	8
5	Cl (mg/L)	5.3	5.5	4.9	11.1	10.0
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.16	0.08	0.06	0.10	0.14
8	Fe (mg/L)		0.1		0.0	0.0
9	HCO3 (mg/L)	21	21	22	26	34
10	K (mg/L)	0.8	0.8	0.9	1.3	1.4
11	Mg (mg/L)	1.6	2.1	1.7	2.1	2.4
12	Na (mg/L)	3.2	3.0	3.4	7.3	7.0
13	NH3-N (mg N/L)		0.17	0.21	0.14	0.24
14	NO2+NO3 (mg N/L)				1.17	0.41
15	NO2-N (mgN/L)				0.00	0.00
16	NO3-N (mgN/L)	0.15	0.26	0.22	1.17	0.41
17	o-PO4-P (mg P/L)				0.012	0.035
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				9.2	6.6
20	SO4 (mg/L)	1.0	2.5	1.9	5.1	4.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.6	0.8	0.5	0.6	1.7
2	COD (mg/L)		4.0	2.5	3.6	6.4
3	DO (mg/L)	7.9	7.8	7.8	7.5	7.8
4	DO_SAT% (%)	95	89	90	87	90
	TRACE & TOXIC					
1	As (µg/L)	10.5	4.7			
2	Cd (µg/L)	0.1	0.0			
3	Cr (µg/L)		2.8			
4	Cu (µg/L)	18.5	2.0			
5	Hg (µg/L)					
6	Ni (µg/L)	1.8	7.6			
7	Pb (µg/L)	1.5	2.5			
8	Zn (µg/L)	1.3	6.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	11	12	11	20	20
2	HAR_Total (mgCaCO3/L)	18	21	18	29	30
3	Na% (%)	27	23	28	34	33
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.3	0.3	0.3	0.6	0.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NELLITHURAI (CCG00Q8)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	No Flow	2.545	30.04	28.35	142.6
2	EC_FLD (µmho/cm)		81	112	90	114
3	EC_GEN (µmho/cm)		130	115	116	117
4	pH_FLD (pH units)		8.2	7.7	7.6	7.5
5	pH_GEN (pH units)		7.7	7.8	8.0	7.9
6	TDS (mg/L)					
7	Temp (deg C)		22.0	21.5	23.0	22.4
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0	0.0	2.0	0.0
2	ALK-TOT (mgCaCO3/L)		42	46	48	56
3	B (mg/L)		0.13	0.04	0.16	0.12
4	Ca (mg/L)		9	10	10	16
5	Cl (mg/L)		11.4	13.9	12.4	12.4
6	CO3 (mg/L)		0.0	0.0	2.4	0.0
7	F (mg/L)		0.18	0.20	0.30	0.21
8	Fe (mg/L)		0.1	0.2	0.1	0.0
9	HCO3 (mg/L)		52	56	54	68
10	K (mg/L)		1.2	1.7	1.1	1.7
11	Mg (mg/L)		5.6	5.7	4.4	3.6
12	Na (mg/L)		9.1	7.1	7.6	8.0
13	NH3-N (mg N/L)		0.05		0.07	0.03
14	NO2+NO3 (mg N/L)		1.60			
15	NO2-N (mgN/L)		0.01			
16	NO3-N (mgN/L)		1.59	0.80	0.71	2.06
17	o-PO4-P (mg P/L)			0.010	0.015	0.043
18	P-Tot (mgP/L)		0.017			
19	SiO2 (mg/L)		10.3	1.2	16.4	15.8
20	SO4 (mg/L)		4.8	3.3	1.1	5.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		0.7	1.0	0.3	1.1
2	COD (mg/L)					
3	DO (mg/L)		8.0	8.2	7.6	7.9
4	DO_SAT% (%)		91	94	88	91
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		23	26	26	41
2	HAR_Total (mgCaCO3/L)		46	49	44	56
3	Na% (%)		29	23	27	23
4	RSC (-)		0.0	0.0	0.1	0.0
5	SAR (-)		0.6	0.4	0.5	0.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NELLITHURAI (CCG00Q8)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	85.00	36.80	68.95	52.86	2.101
2	EC_FLD (µmho/cm)	95	90	86	112	219
3	EC_GEN (µmho/cm)	111	100	78	117	244
4	pH_FLD (pH units)	7.5	7.5	7.5	7.6	7.5
5	pH_GEN (pH units)	7.5	7.4	7.6	7.7	7.9
6	TDS (mg/L)				66	141
7	Temp (deg C)	21.6	22.8	22.1	22.3	20.1
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	3.8
2	ALK-TOT (mgCaCO3/L)	44	34	33	37	70
3	B (mg/L)				0.00	0.05
4	Ca (mg/L)	11	8	9	10	20
5	Cl (mg/L)	14.2	9.7	7.5	14.6	29.1
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	4.6
7	F (mg/L)	0.31	0.08	0.08	0.09	0.25
8	Fe (mg/L)	0.1			0.2	0.1
9	HCO3 (mg/L)	53	41	40	46	76
10	K (mg/L)	1.4	1.4	0.7	1.5	3.3
11	Mg (mg/L)	5.1	5.1	3.6	4.9	9.6
12	Na (mg/L)	8.6	5.3	4.1	9.5	19.1
13	NH3-N (mg N/L)		0.13	0.12	0.13	0.16
14	NO2+NO3 (mg N/L)				1.00	3.00
15	NO2-N (mgN/L)				0.00	0.01
16	NO3-N (mgN/L)	0.32	0.39	0.29	1.35	2.99
17	o-PO4-P (mg P/L)				0.000	0.092
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				9.7	15.7
20	SO4 (mg/L)	4.3	3.9	2.8	4.3	14.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.6	0.6	0.6	1.0	1.5
2	COD (mg/L)		4.4	2.4	6.0	5.3
3	DO (mg/L)	8.0	7.9	8.0	7.8	7.6
4	DO_SAT% (%)	91	91	91	89	84
	TRACE & TOXIC					
1	As (µg/L)	0.6				
2	Cd (µg/L)				0.5	
3	Cr (µg/L)	1.5			11.8	
4	Cu (µg/L)	8.9			3.3	
5	Hg (µg/L)					
6	Ni (µg/L)				2.4	
7	Pb (µg/L)	1.0			1.1	
8	Zn (µg/L)				2.7	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	27	19	22	24	50
2	HAR_Total (mgCaCO3/L)	48	40	37	44	90
3	Na% (%)	27	22	19	31	31
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.5	0.4	0.3	0.6	0.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NELLITHURAI (CCG00Q8)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	No Flow	No Flow	2.951	2.810	2.984
2	EC_FLD (µmho/cm)			108	77	71
3	EC_GEN (µmho/cm)			108	68	80
4	pH_FLD (pH units)			8.1	7.9	7.7
5	pH_GEN (pH units)			7.9	7.8	7.4
6	TDS (mg/L)					
7	Temp (deg C)			23.3	24.0	24.5
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)			0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)			36	33	27
3	B (mg/L)			0.14	0.02	0.32
4	Ca (mg/L)			7	7	7
5	Cl (mg/L)			10.3	10.6	8.5
6	CO3 (mg/L)			0.0	0.0	0.0
7	F (mg/L)			0.06	0.14	0.32
8	Fe (mg/L)			0.1	0.1	0.1
9	HCO3 (mg/L)			44	40	33
10	K (mg/L)			1.2	1.0	0.8
11	Mg (mg/L)			5.5	4.2	2.9
12	Na (mg/L)			6.3	5.3	4.7
13	NH3-N (mg N/L)			0.03	0.09	0.01
14	NO2+NO3 (mg N/L)			1.11		
15	NO2-N (mgN/L)			0.01		
16	NO3-N (mgN/L)			1.10	0.28	0.62
17	o-PO4-P (mg P/L)				0.010	0.010
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)			8.4	6.8	5.9
20	SO4 (mg/L)			4.6	1.1	1.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)			0.2	1.0	0.5
2	COD (mg/L)					
3	DO (mg/L)			8.2	8.1	7.7
4	DO_SAT% (%)			95	96	92
	TRACE & TOXIC					
1	As (µg/L)			3.2		
2	Cd (µg/L)			0.6		
3	Cr (µg/L)					
4	Cu (µg/L)				1.5	
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)			1.5	1.6	
8	Zn (µg/L)			7.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)			19	19	17
2	HAR_Total (mgCaCO3/L)			42	36	29
3	Na% (%)			24	24	25
4	RSC (-)			0.0	0.0	0.0
5	SAR (-)			0.4	0.4	0.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NELLITHURAI (CCG00Q8)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	3.447	47.22	3.139	39.83
2	EC_FLD (µmho/cm)	240	51	82	40
3	EC_GEN (µmho/cm)	279	51	75	40
4	pH_FLD (pH units)	7.5	7.5	7.5	7.7
5	pH_GEN (pH units)	7.9	7.6	7.6	7.9
6	TDS (mg/L)				17
7	Temp (deg C)	23.7	23.1	23.8	22.7
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	93	19	32	15
3	B (mg/L)	0.00			
4	Ca (mg/L)	22	4	7	4
5	Cl (mg/L)	39.1	6.3	7.2	4.4
6	CO3 (mg/L)	0.0	0.0	0.0	0.0
7	F (mg/L)	0.32	0.29	0.31	0.04
8	Fe (mg/L)	0.0	0.0	0.0	0.1
9	HCO3 (mg/L)	114	23	39	18
10	K (mg/L)	3.0	0.9	0.8	0.4
11	Mg (mg/L)	11.0	2.3	3.6	1.8
12	Na (mg/L)	22.8	3.8	4.3	2.4
13	NH3-N (mg N/L)	0.00		0.26	0.11
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)	2.04	0.17	0.10	0.13
17	o-PO4-P (mg P/L)	0.000			
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	26.4			
20	SO4 (mg/L)	13.3	1.4	1.7	1.1
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.3	0.8	0.6	0.7
2	COD (mg/L)			3.2	2.7
3	DO (mg/L)	8.1	7.8	8.0	8.1
4	DO_SAT% (%)	95	91	95	93
	TRACE & TOXIC				
1	As (µg/L)	1.4	0.7	6.6	6.6
2	Cd (µg/L)	0.0	0.0	0.1	0.0
3	Cr (µg/L)	1.9	4.1	0.0	8.2
4	Cu (µg/L)	2.4	1.0	0.8	2.6
5	Hg (µg/L)			0.2	
6	Ni (µg/L)		0.6	4.0	8.1
7	Pb (µg/L)	0.0	3.5	1.4	2.2
8	Zn (µg/L)	11.0	38.0	1.4	4.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	56	11	17	9
2	HAR_Total (mgCaCO3/L)	102	20	32	17
3	Na% (%)	32	28	22	25
4	RSC (-)	0.0	0.0	0.0	0.0
5	SAR (-)	1.0	0.4	0.3	0.3
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : NELLITHURAI (CCG00Q8)

Division : SR Division, Coimbatore

Local River : Bhavani

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	3.467	2.075	No Flow	No Flow
2	EC_FLD (µmho/cm)	68	67		
3	EC_GEN (µmho/cm)	75	74		
4	pH_FLD (pH units)	8.0	7.6		
5	pH_GEN (pH units)	8.1	7.6		
6	TDS (mg/L)	46	43		
7	Temp (deg C)	21.7	23.0		
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	3.3	0.0		
2	ALK-TOT (mgCaCO3/L)	21	21		
3	B (mg/L)	0.00	0.05		
4	Ca (mg/L)	6	8		
5	Cl (mg/L)	8.4	7.9		
6	CO3 (mg/L)	4.0	0.0		
7	F (mg/L)	0.07	0.06		
8	Fe (mg/L)	0.0	0.0		
9	HCO3 (mg/L)	17	26		
10	K (mg/L)	1.0	0.8		
11	Mg (mg/L)	3.1	1.9		
12	Na (mg/L)	5.1	5.4		
13	NH3-N (mg N/L)	0.09	0.07		
14	NO2+NO3 (mg N/L)	0.37	0.91		
15	NO2-N (mgN/L)	0.00	0.00		
16	NO3-N (mgN/L)	0.36	0.90		
17	o-PO4-P (mg P/L)	0.037	0.023		
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	5.4	5.2		
20	SO4 (mg/L)	3.2	4.6		
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.3	1.0		
2	COD (mg/L)	4.4	5.0		
3	DO (mg/L)	8.1	8.1		
4	DO_SAT% (%)	92	93		
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Hg (µg/L)				
6	Ni (µg/L)				
7	Pb (µg/L)				
8	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	14	20		
2	HAR_Total (mgCaCO3/L)	27	28		
3	Na% (%)	30	29		
4	RSC (-)	0.0	0.0		
5	SAR (-)	0.4	0.4		
	PESTICIDES				

HISTORY SHEET

Water Year : 2017-2018

Site	: URACHIKOTTAI	Code	: CC000K5
State	: Tamil Nadu	District	Erode
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: -	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Cauvery
Division	: SR Division, Coimbatore	Sub-Division	: Middle Cauvery SD, Coimbatore
Drainage Area	: 44100 Sq. Km.	Bank	: Right
Latitude	: 11°28'40"	Longitude	: 77°42'00"
Zero of Gauge (m)	: 155.000 (m.s.l) 154.000 (m.s.l)	01/06/1978 01/06/1985	- 31/05/1985
	Opening Date	Closing Date	
Gauge	: 01/06/1978		
Discharge	: 06/08/1979		
Sediment	: 04/01/2001		
Water Quality	: 01/06/1979		

Water Quality Datasheet for the period : 2017-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/06/2017	04/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	74.31	81.59
2	Colour_Cod (-)		Clear	Clear
3	EC_FLD (μmho/cm)		511	510
4	EC_GEN (μmho/cm)		511	510
5	Odour_Code (-)		odour free	odour free
6	pH_FLD (pH units)		8.0	8.0
7	pH_GEN (pH units)		8.4	7.8
8	TDS (mg/L)		290	289
9	Temp (deg C)		32.0	33.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		15.2	0.0
2	ALK-TOT (mgCaCO3/L)		130	145
3	B (mg/L)		0.12	0.08
4	Ca (mg/L)		25	23
5	Cl (mg/L)		56.6	60.4
6	CO3 (mg/L)		18.3	0.0
7	F (mg/L)		0.55	0.49
8	Fe (mg/L)		0.0	0.0
9	HCO3 (mg/L)		121	177
10	K (mg/L)		4.8	5.1
11	Mg (mg/L)		28.5	28.5
12	Na (mg/L)		40.9	42.8
13	NH3-N (mg N/L)		0.30	0.42
14	NO2+NO3 (mg N/L)		1.23	1.56
15	NO2-N (mgN/L)		0.45	0.32
16	NO3-N (mgN/L)		0.78	1.24
17	o-PO4-P (mg P/L)		0.050	0.040
18	SiO2 (mg/L)		30.5	21.1
19	SO4 (mg/L)		44.6	34.6
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		2.1	4.3
2	COD (mg/L)		20.2	18.6
3	DO (mg/L)		6.8	7.0
4	DO_SAT% (%)		94	98
	TRACE & TOXIC			
1	As (μg/L)			5.0
2	Cd (μg/L)			0.0
3	Cr (μg/L)			6.0
4	Cu (μg/L)			8.0
5	Ni (μg/L)			
6	Pb (μg/L)			0.0
7	Zn (μg/L)			0.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		63	59
2	HAR_Total (mgCaCO3/L)		181	177
3	Na% (%)		32	34
4	RSC (-)		0.0	0.0
5	SAR (-)		1.3	1.4
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	11/08/2017	01/09/2017	13/09/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	190.0	No Flow	207.6
2	Colour_Cod (-)	Clear		Clear
3	EC_FLD (µmho/cm)			313
4	EC_GEN (µmho/cm)	311		313
5	Odour_Code (-)	odour free		odour free
6	pH_FLD (pH units)			8.7
7	pH_GEN (pH units)	8.1		8.7
8	TDS (mg/L)	177		179
9	Temp (deg C)	30.0		31.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0		15.0
2	ALK-TOT (mgCaCO3/L)	107		102
3	B (mg/L)	0.08		0.04
4	Ca (mg/L)	17		19
5	Cl (mg/L)	34.0		33.7
6	CO3 (mg/L)	0.0		18.1
7	F (mg/L)	0.45		0.26
8	Fe (mg/L)	0.0		0.0
9	HCO3 (mg/L)	130		87
10	K (mg/L)	3.4		3.9
11	Mg (mg/L)	16.1		16.8
12	Na (mg/L)	24.6		24.7
13	NH3-N (mg N/L)	0.02		0.07
14	NO2+NO3 (mg N/L)	0.49		0.45
15	NO2-N (mgN/L)	0.00		0.14
16	NO3-N (mgN/L)	0.49		0.31
17	o-PO4-P (mg P/L)	0.040		0.020
18	SiO2 (mg/L)	10.3		7.1
19	SO4 (mg/L)	11.8		17.9
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			3.1
2	COD (mg/L)			8.8
3	DO (mg/L)			5.9
4	DO_SAT% (%)			80
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	43		46
2	HAR_Total (mgCaCO3/L)	110		116
3	Na% (%)	32		31
4	RSC (-)	0.0		0.0
5	SAR (-)	1.0		1.0
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	21/09/2017	03/10/2017	11/10/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	85.80	590.8	528.2
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)	277	337	113
4	EC_GEN (μmho/cm)	277	337	113
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	8.8	8.0	8.6
7	pH_GEN (pH units)	8.8	7.9	8.6
8	TDS (mg/L)	159	193	64
9	Temp (deg C)	31.0	30.0	30.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	26.3	0.0	3.7
2	ALK-TOT (mgCaCO3/L)	87	97	37
3	B (mg/L)	0.09	0.07	0.05
4	Ca (mg/L)	28	28	9
5	Cl (mg/L)	33.7	38.9	13.0
6	CO3 (mg/L)	31.7	0.0	4.5
7	F (mg/L)	0.21	0.26	0.20
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	41	119	36
10	K (mg/L)	3.8	4.1	1.1
11	Mg (mg/L)	5.6	11.2	3.7
12	Na (mg/L)	22.9	24.5	9.3
13	NH3-N (mg N/L)	0.06	0.14	0.12
14	NO2+NO3 (mg N/L)	0.07	0.45	0.18
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	0.07	0.45	0.18
17	o-PO4-P (mg P/L)	0.050	0.060	0.110
18	SiO2 (mg/L)	8.0	5.8	8.0
19	SO4 (mg/L)	9.4	16.5	3.4
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	4.0	4.2	3.8
2	COD (mg/L)	15.6	15.2	16.4
3	DO (mg/L)	9.9	7.2	6.9
4	DO_SAT% (%)	134	95	91
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	69	69	23
2	HAR_Total (mgCaCO3/L)	93	116	39
3	Na% (%)	34	31	34
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	1.0	1.0	0.7
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	21/10/2017	01/11/2017	13/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	661.5	132.2	124.2
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)	209	309	358
4	EC_GEN (μmho/cm)	209	309	358
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	7.1	8.0	8.0
7	pH_GEN (pH units)	7.1	8.1	8.0
8	TDS (mg/L)	119	199	206
9	Temp (deg C)	30.5	30.0	30.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	56	105	112
3	B (mg/L)	0.06	0.05	0.09
4	Ca (mg/L)	18	28	31
5	Cl (mg/L)	27.8	35.5	35.5
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.32	0.27	0.37
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	68	128	137
10	K (mg/L)	3.8	4.5	4.7
11	Mg (mg/L)	4.7	9.3	9.3
12	Na (mg/L)	17.2	26.7	27.1
13	NH3-N (mg N/L)	0.12	0.09	0.14
14	NO2+NO3 (mg N/L)	0.18	0.41	0.37
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	0.18	0.41	0.37
17	o-PO4-P (mg P/L)	0.080	0.080	0.030
18	SiO2 (mg/L)	9.4	10.3	9.3
19	SO4 (mg/L)	13.1	14.9	16.6
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	4.8	1.4	5.3
2	COD (mg/L)	20.1	6.7	9.2
3	DO (mg/L)	7.1	6.8	7.0
4	DO_SAT% (%)	94	90	92
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	46	69	77
2	HAR_Total (mgCaCO3/L)	65	108	115
3	Na% (%)	35	34	33
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.9	1.1	1.1
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	21/11/2017	01/12/2017	09/12/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	216.6	No Flow	232.1
2	Colour_Cod (-)	Clear		Clear
3	EC_FLD (μmho/cm)	395		389
4	EC_GEN (μmho/cm)	395		389
5	Odour_Code (-)	odour free		odour free
6	pH_FLD (pH units)	7.9		8.0
7	pH_GEN (pH units)	7.9		8.4
8	TDS (mg/L)	230		223
9	Temp (deg C)	29.5		29.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0		21.5
2	ALK-TOT (mgCaCO3/L)	131		138
3	B (mg/L)	0.16		0.09
4	Ca (mg/L)	34		28
5	Cl (mg/L)	37.4		41.1
6	CO3 (mg/L)	0.0		25.9
7	F (mg/L)	0.43		0.34
8	Fe (mg/L)	0.0		0.0
9	HCO3 (mg/L)	160		116
10	K (mg/L)	4.8		4.8
11	Mg (mg/L)	13.0		17.2
12	Na (mg/L)	28.1		29.9
13	NH3-N (mg N/L)	0.17		0.10
14	NO2+NO3 (mg N/L)	0.24		0.93
15	NO2-N (mgN/L)	0.00		0.00
16	NO3-N (mgN/L)	0.24		0.93
17	o-PO4-P (mg P/L)	0.100		0.020
18	SiO2 (mg/L)	10.8		10.5
19	SO4 (mg/L)	18.5		17.1
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	2.4		
2	COD (mg/L)	11.4		11.2
3	DO (mg/L)	6.8		7.0
4	DO_SAT% (%)	89		90
	TRACE & TOXIC			
1	As (μg/L)			3.3
2	Cd (μg/L)			0.0
3	Cr (μg/L)			1.7
4	Cu (μg/L)			5.5
5	Ni (μg/L)			4.5
6	Pb (μg/L)			1.1
7	Zn (μg/L)			7.6
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	84		71
2	HAR_Total (mgCaCO3/L)	139		142
3	Na% (%)	30		31
4	RSC (-)	0.0		0.0
5	SAR (-)	1.0		1.1
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	21/12/2017	01/01/2018	11/01/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	264.8	271.4	78.48
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)	440	421	471
4	EC_GEN (μmho/cm)	440	421	471
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	8.0	8.0	8.0
7	pH_GEN (pH units)	8.3	8.2	8.4
8	TDS (mg/L)	251	241	268
9	Temp (deg C)	27.5	27.5	27.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	30.1	0.0	13.0
2	ALK-TOT (mgCaCO3/L)	164	160	174
3	B (mg/L)	0.08	0.09	0.15
4	Ca (mg/L)	20	31	30
5	Cl (mg/L)	41.1	41.1	47.2
6	CO3 (mg/L)	36.3	0.0	15.6
7	F (mg/L)	0.37	0.33	0.57
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	126	195	180
10	K (mg/L)	5.1	4.4	4.5
11	Mg (mg/L)	27.6	21.0	25.3
12	Na (mg/L)	31.5	30.1	34.7
13	NH3-N (mg N/L)	0.13	0.12	0.00
14	NO2+NO3 (mg N/L)	0.42	1.28	0.56
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	0.42	1.28	0.56
17	o-PO4-P (mg P/L)	0.060	0.020	0.060
18	SiO2 (mg/L)	13.4	12.2	12.6
19	SO4 (mg/L)	17.4	16.5	19.8
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	3.4	1.5	2.1
2	COD (mg/L)	7.4	12.4	10.4
3	DO (mg/L)	6.8	7.2	6.8
4	DO_SAT% (%)	86	90	86
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	51	79	76
2	HAR_Total (mgCaCO3/L)	166	166	181
3	Na% (%)	29	28	29
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	1.1	1.0	1.1
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	22/01/2018	01/02/2018	12/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	247.1	No Flow	No Flow
2	Colour_Cod (-)	Clear		
3	EC_FLD (μmho/cm)	455		
4	EC_GEN (μmho/cm)	455		
5	Odour_Code (-)	odour free		
6	pH_FLD (pH units)	8.0		
7	pH_GEN (pH units)	8.5		
8	TDS (mg/L)	259		
9	Temp (deg C)	27.0		
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	21.6		
2	ALK-TOT (mgCaCO3/L)	165		
3	B (mg/L)	0.09		
4	Ca (mg/L)	34		
5	Cl (mg/L)	41.5		
6	CO3 (mg/L)	26.0		
7	F (mg/L)	0.43		
8	Fe (mg/L)	0.0		
9	HCO3 (mg/L)	148		
10	K (mg/L)	4.3		
11	Mg (mg/L)	19.4		
12	Na (mg/L)	30.7		
13	NH3-N (mg N/L)	0.01		
14	NO2+NO3 (mg N/L)	0.68		
15	NO2-N (mgN/L)	0.00		
16	NO3-N (mgN/L)	0.68		
17	o-PO4-P (mg P/L)	0.040		
18	SiO2 (mg/L)	11.9		
19	SO4 (mg/L)	19.6		
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	3.6		
2	COD (mg/L)	10.9		
3	DO (mg/L)	7.0		
4	DO_SAT% (%)	87		
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	84		
2	HAR_Total (mgCaCO3/L)	165		
3	Na% (%)	28		
4	RSC (-)	0.0		
5	SAR (-)	1.0		
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	21/02/2018	01/03/2018	12/03/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_FLD (μmho/cm)			
4	EC_GEN (μmho/cm)			
5	Odour_Code (-)			
6	pH_FLD (pH units)			
7	pH_GEN (pH units)			
8	TDS (mg/L)			
9	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	19/03/2018	02/04/2018	16/04/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	81.99	0.000	146.4
2	Colour_Cod (-)	Clear		Clear
3	EC_FLD (µmho/cm)	474		489
4	EC_GEN (µmho/cm)	474		489
5	Odour_Code (-)	odour free		odour free
6	pH_FLD (pH units)	8.2		8.0
7	pH_GEN (pH units)	8.2		8.0
8	TDS (mg/L)	272		278
9	Temp (deg C)	28.5		31.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0		0.0
2	ALK-TOT (mgCaCO3/L)	161		163
3	B (mg/L)	0.10		0.08
4	Ca (mg/L)	24		30
5	Cl (mg/L)	47.2		51.2
6	CO3 (mg/L)	0.0		0.0
7	F (mg/L)	0.44		0.32
8	Fe (mg/L)	0.0		0.0
9	HCO3 (mg/L)	196		199
10	K (mg/L)	5.2		5.0
11	Mg (mg/L)	29.2		25.3
12	Na (mg/L)	32.9		39.3
13	NH3-N (mg N/L)	0.00		0.01
14	NO2+NO3 (mg N/L)	0.52		0.69
15	NO2-N (mgN/L)	0.39		0.00
16	NO3-N (mgN/L)	0.13		0.69
17	o-PO4-P (mg P/L)	0.010		0.040
18	SiO2 (mg/L)	15.7		15.2
19	SO4 (mg/L)	31.5		29.0
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	3.5		4.1
2	COD (mg/L)	21.5		14.1
3	DO (mg/L)	6.8		6.8
4	DO_SAT% (%)	86		92
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	60		76
2	HAR_Total (mgCaCO3/L)	182		181
3	Na% (%)	28		31
4	RSC (-)	0.0		0.0
5	SAR (-)	1.1		1.3
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	21/04/2018	01/05/2018	11/05/2018	21/05/2018
		A	A	A	A
	PHYSICAL				
1	Q (cumec)	No Flow	No Flow	52.70	53.11
2	Colour_Cod (-)			Clear	Clear
3	EC_FLD (μmho/cm)			475	464
4	EC_GEN (μmho/cm)			475	464
5	Odour_Code (-)			odour free	odour free
6	pH_FLD (pH units)			7.7	8.1
7	pH_GEN (pH units)			7.7	8.1
8	TDS (mg/L)			270	264
9	Temp (deg C)			31.0	31.5
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)			0.0	0.0
2	ALK-TOT (mgCaCO3/L)			128	152
3	B (mg/L)			0.01	0.21
4	Ca (mg/L)			16	26
5	Cl (mg/L)			67.5	54.0
6	CO3 (mg/L)			0.0	0.0
7	F (mg/L)			0.51	0.46
8	Fe (mg/L)			0.0	0.0
9	HCO3 (mg/L)			156	186
10	K (mg/L)			5.2	4.2
11	Mg (mg/L)			24.3	23.3
12	Na (mg/L)			50.2	40.6
13	NH3-N (mg N/L)			0.24	0.04
14	NO2+NO3 (mg N/L)			1.16	0.97
15	NO2-N (mgN/L)			0.25	0.46
16	NO3-N (mgN/L)			0.91	0.51
17	o-PO4-P (mg P/L)			0.040	0.000
18	SiO2 (mg/L)			16.3	13.5
19	SO4 (mg/L)			29.6	22.4
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)			4.0	4.0
2	COD (mg/L)			12.3	8.6
3	DO (mg/L)			7.2	6.8
4	DO_SAT% (%)			97	92
	TRACE & TOXIC				
1	As (μg/L)				
2	Cd (μg/L)				
3	Cr (μg/L)				
4	Cu (μg/L)				
5	Ni (μg/L)				
6	Pb (μg/L)				
7	Zn (μg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)			40	64
2	HAR_Total (mgCaCO3/L)			141	161
3	Na% (%)			43	35
4	RSC (-)			0.0	0.0
5	SAR (-)			1.8	1.4
	PESTICIDES				

Water Quality Summary for the period : 2017-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	661.5	0.000	95.19
2	EC_FLD (µmho/cm)	19	511	113	390
3	EC_GEN (µmho/cm)	20	511	113	386
4	pH_FLD (pH units)	19	8.8	7.1	8
5	pH_GEN (pH units)	20	8.8	7.1	8.2
6	TDS (mg/L)	20	290	64	222
7	Temp (deg C)	20	33.0	27.0	30
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	20	30.1	0.0	7.3
2	ALK-TOT (mgCaCO3/L)	20	174	37	126
3	B (mg/L)	20	0.21	0.01	0.09
4	Ca (mg/L)	20	34	9	25
5	Cl (mg/L)	20	67.5	13.0	41.9
6	CO3 (mg/L)	20	36.3	0.0	8.8
7	F (mg/L)	20	0.57	0.20	0.38
8	Fe (mg/L)	20	0.0	0.0	0
9	HCO3 (mg/L)	20	199	36	135
10	K (mg/L)	20	5.2	1.1	4.3
11	Mg (mg/L)	20	29.2	3.7	18
12	Na (mg/L)	20	50.2	9.3	30.4
13	NH3-N (mg N/L)	20	0.42	0.00	0.12
14	NO2+NO3 (mg N/L)	20	1.56	0.07	0.64
15	NO2-N (mgN/L)	20	0.46	0.00	0.1
16	NO3-N (mgN/L)	20	1.28	0.07	0.54
17	o-PO4-P (mg P/L)	20	0.110	0.000	0.047
18	SiO2 (mg/L)	20	30.5	5.8	12.6
19	SO4 (mg/L)	20	44.6	3.4	20.2
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	18	5.3	1.4	3.4
2	COD (mg/L)	19	21.5	6.7	13.2
3	DO (mg/L)	19	9.9	5.9	7
4	DO_SAT% (%)	19	134	80	93
	TRACE & TOXIC				
1	As (µg/L)	2	5.0	3.3	4.2
2	Cd (µg/L)	2	0.0	0.0	0
3	Cr (µg/L)	2	6.0	1.7	3.8
4	Cu (µg/L)	2	8.0	5.5	6.8
5	Ni (µg/L)	1	4.5	4.5	4.5
6	Pb (µg/L)	2	1.1	0.0	0.5
7	Zn (µg/L)	2	7.6	0.0	3.8
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	20	84	23	62
2	HAR_Total (mgCaCO3/L)	20	182	39	137
3	Na% (%)	20	43	28	32
4	RSC (-)	20	0.0	0.0	0
5	SAR (-)	20	1.8	0.7	1.1
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	400.1	345.0	330.9	206.0	401.6
2	EC_FLD (µmho/cm)	183	320	295	283	248
3	EC_GEN (µmho/cm)	202	328	258	318	244
4	pH_FLD (pH units)	8.0	8.1	8.1	8.0	7.8
5	pH_GEN (pH units)	8.0	8.1	8.1	8.0	7.8
6	TDS (mg/L)					
7	Temp (deg C)	25.2	25.6	27.0	26.5	29.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	1.9	0.0	5.0	0.0
2	ALK-TOT (mgCaCO3/L)	72	128	104	140	103
3	B (mg/L)	0.24	0.20	0.17	0.14	
4	Ca (mg/L)	17	22	18	24	22
5	Cl (mg/L)	15.1	24.3	24.5	43.2	27.5
6	CO3 (mg/L)	0.0	2.3	0.0	6.0	0.0
7	F (mg/L)	0.30	0.37	0.28	0.50	0.40
8	Fe (mg/L)	0.1	0.1	0.3	0.0	
9	HCO3 (mg/L)	87	151	127	159	126
10	K (mg/L)	1.9	2.3	2.3	3.0	2.5
11	Mg (mg/L)	8.4	12.6	13.4	17.7	11.4
12	Na (mg/L)	13.1	25.7	19.3	29.7	19.5
13	NH3-N (mg N/L)	0.05	0.06	0.08	0.07	
14	NO2+NO3 (mg N/L)	2.49	1.66			
15	NO2-N (mgN/L)	0.04	0.07			
16	NO3-N (mgN/L)	2.45	1.59	1.02	5.33	0.56
17	o-PO4-P (mg P/L)		0.010	0.247	0.132	
18	P-Tot (mgP/L)	0.012				
19	SiO2 (mg/L)	13.6	18.7	16.3	21.4	
20	SO4 (mg/L)	5.6	5.8	2.8	9.8	7.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.3	1.3	1.1	1.7	2.5
2	COD (mg/L)					
3	DO (mg/L)	7.6	7.8	8.3	8.4	8.1
4	DO_SAT% (%)	94	95	105	104	105
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	41	54	45	60	55
2	HAR_Total (mgCaCO3/L)	77	107	100	134	103
3	Na% (%)	26	34	29	32	29
4	RSC (-)	0.0	0.4	0.1	0.1	0.1
5	SAR (-)	0.7	1.1	0.8	1.1	0.8
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	130.8	328.6	298.7	249.6	110.3
2	EC_FLD (µmho/cm)	314	186	293	317	422
3	EC_GEN (µmho/cm)	318	186	300	317	422
4	pH_FLD (pH units)	8.0	7.8	8.2	8.0	8.0
5	pH_GEN (pH units)	8.0	7.7	8.1	8.1	8.1
6	TDS (mg/L)			160	184	242
7	Temp (deg C)	30.0	27.1	26.3	29.9	30.2
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	7.6	3.8	1.5
2	ALK-TOT (mgCaCO3/L)	120	65	108	111	141
3	B (mg/L)				0.06	0.11
4	Ca (mg/L)	29	13	22	23	24
5	Cl (mg/L)	36.8	18.0	32.0	33.6	44.3
6	CO3 (mg/L)	0.0	0.0	9.1	4.6	1.8
7	F (mg/L)	0.20	0.16	0.31	0.47	0.42
8	Fe (mg/L)		0.2		0.0	0.0
9	HCO3 (mg/L)	146	80	113	126	169
10	K (mg/L)	2.5	1.9	3.0	3.6	4.2
11	Mg (mg/L)	10.5	10.7	14.6	15.4	23.5
12	Na (mg/L)	27.5	10.4	23.6	24.8	33.3
13	NH3-N (mg N/L)		0.17	0.17	0.22	0.36
14	NO2+NO3 (mg N/L)				1.59	0.86
15	NO2-N (mgN/L)				0.02	0.00
16	NO3-N (mgN/L)	0.20	0.60	0.58	1.57	0.86
17	o-PO4-P (mg P/L)				0.056	0.052
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				15.8	14.7
20	SO4 (mg/L)	12.0	8.9	12.7	15.2	21.9
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.1	1.2	2.1	3.4	3.6
2	COD (mg/L)		8.5	10.5	14.1	18.0
3	DO (mg/L)	6.6	7.3	7.1	7.1	7.2
4	DO_SAT% (%)	88	91	88	93	95
	TRACE & TOXIC					
1	As (µg/L)	25.5	1.5			
2	Cd (µg/L)	0.1	0.0			
3	Cr (µg/L)	0.7	4.5			
4	Cu (µg/L)	7.4	2.7			
5	Hg (µg/L)		0.1			
6	Ni (µg/L)	2.4	8.1			
7	Pb (µg/L)	5.0	4.9			
8	Zn (µg/L)	2.4	12.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	73	33	56	56	60
2	HAR_Total (mgCaCO3/L)	117	77	117	120	158
3	Na% (%)	34	23	30	32	31
4	RSC (-)	0.1	0.0	0.0	0.0	0.0
5	SAR (-)	1.1	0.5	0.9	1.0	1.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	242.0	344.1	176.0	85.21	72.51
2	EC_FLD (µmho/cm)	324	333	279	340	338
3	EC_GEN (µmho/cm)	323	342	356	386	338
4	pH_FLD (pH units)	8.2	8.3	8.5	8.1	8.2
5	pH_GEN (pH units)	8.2	8.4	8.1	8.2	8.0
6	TDS (mg/L)	184				
7	Temp (deg C)	31.1	25.2	24.3	25.5	25.5
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	7.5	11.9	3.0	5.3	0.0
2	ALK-TOT (mgCaCO3/L)	95	136	165	169	154
3	B (mg/L)	0.07	0.23	0.23	0.12	0.28
4	Ca (mg/L)	21	26	33	31	34
5	Cl (mg/L)	37.2	21.0	28.1	30.3	39.7
6	CO3 (mg/L)	9.1	14.3	3.6	6.4	0.0
7	F (mg/L)	0.34	0.39	0.51	0.53	0.44
8	Fe (mg/L)	0.0	0.1	0.1	0.1	0.0
9	HCO3 (mg/L)	97	137	194	193	188
10	K (mg/L)	3.8	2.1	1.3	2.5	2.3
11	Mg (mg/L)	14.4	12.8	17.9	19.4	19.0
12	Na (mg/L)	25.9	25.5	29.2	29.1	30.1
13	NH3-N (mg N/L)	0.16	0.05		0.09	0.01
14	NO2+NO3 (mg N/L)	0.57	1.74			
15	NO2-N (mgN/L)	0.11	0.01			
16	NO3-N (mgN/L)	0.46	1.73	0.25	1.72	3.62
17	o-PO4-P (mg P/L)	0.056		0.010	0.040	0.076
18	P-Tot (mgP/L)		0.027			
19	SiO2 (mg/L)	12.5	16.6	2.3	24.8	19.8
20	SO4 (mg/L)	18.9	10.5	14.9	22.9	14.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	3.8	1.1	1.3	0.9	1.1
2	COD (mg/L)	16.4				
3	DO (mg/L)	7.3	8.2	7.8	7.5	8.4
4	DO_SAT% (%)	98	99	92	92	103
	TRACE & TOXIC					
1	As (µg/L)	5.0				
2	Cd (µg/L)	0.0				
3	Cr (µg/L)	6.0				
4	Cu (µg/L)	8.0				
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)	0.0				
8	Zn (µg/L)	0.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	52	64	82	77	86
2	HAR_Total (mgCaCO3/L)	112	117	156	158	165
3	Na% (%)	33	31	29	28	28
4	RSC (-)	0.0	0.4	0.2	0.2	0.0
5	SAR (-)	1.0	1.0	1.0	1.0	1.0
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	75.01	25.04	214.8	213.4	159.5
2	EC_FLD (µmho/cm)	301	307	341	366	474
3	EC_GEN (µmho/cm)	311	314	319	366	468
4	pH_FLD (pH units)	7.6	8.2	8.0	7.9	8.0
5	pH_GEN (pH units)	7.7	8.2	8.2	8.1	8.3
6	TDS (mg/L)				207	268
7	Temp (deg C)	25.8	28.0	26.5	27.4	27.8
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	7.9	2.6	0.0	17.2
2	ALK-TOT (mgCaCO3/L)	129	121	137	128	174
3	B (mg/L)				0.03	0.13
4	Ca (mg/L)	34	30	30	24	33
5	Cl (mg/L)	37.8	32.2	26.3	36.2	43.2
6	CO3 (mg/L)	0.0	9.6	3.1	0.0	20.7
7	F (mg/L)	0.17	0.08	0.31	0.34	0.54
8	Fe (mg/L)	0.1			0.0	0.0
9	HCO3 (mg/L)	158	129	161	156	170
10	K (mg/L)	2.5	2.4	2.2	3.5	4.4
11	Mg (mg/L)	12.2	12.6	15.9	17.8	24.2
12	Na (mg/L)	26.8	22.6	18.3	27.3	33.9
13	NH3-N (mg N/L)			0.07	0.17	0.45
14	NO2+NO3 (mg N/L)				2.08	3.34
15	NO2-N (mgN/L)				0.01	0.05
16	NO3-N (mgN/L)	0.56	0.11	0.13	2.32	3.30
17	o-PO4-P (mg P/L)				0.010	0.115
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				15.4	20.0
20	SO4 (mg/L)	12.9	11.8	14.4	16.2	25.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.3	2.3	2.0	1.9	3.7
2	COD (mg/L)		13.7	6.7	8.6	11.5
3	DO (mg/L)	7.6	7.5	7.4	7.4	7.2
4	DO_SAT% (%)	93	95	92	93	91
	TRACE & TOXIC					
1	As (µg/L)	0.4				
2	Cd (µg/L)				0.8	
3	Cr (µg/L)	1.1			5.7	
4	Cu (µg/L)	15.1			5.8	
5	Hg (µg/L)					
6	Ni (µg/L)				5.3	
7	Pb (µg/L)	1.1			1.2	
8	Zn (µg/L)	5.0			2.3	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	84	74	75	61	83
2	HAR_Total (mgCaCO3/L)	135	127	141	135	184
3	Na% (%)	30	27	22	30	28
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	1.0	0.9	0.7	1.0	1.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	22.22	130.6	17.08	71.42	42.70
2	EC_FLD (µmho/cm)	292	405	338	362	280
3	EC_GEN (µmho/cm)	292	405	355	382	342
4	pH_FLD (pH units)	8.0	8.0	8.5	8.5	8.2
5	pH_GEN (pH units)	7.8	8.2	8.4	8.3	8.2
6	TDS (mg/L)	171	235			
7	Temp (deg C)	30.0	28.6	26.0	27.0	28.8
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	10.8	13.0	7.9	8.0
2	ALK-TOT (mgCaCO3/L)	101	144	139	173	144
3	B (mg/L)	0.01	0.10	0.32	0.21	0.01
4	Ca (mg/L)	24	30	24	30	27
5	Cl (mg/L)	34.4	40.0	23.8	34.6	36.5
6	CO3 (mg/L)	0.0	13.0	15.6	9.5	9.6
7	F (mg/L)	0.27	0.39	0.41	0.53	0.66
8	Fe (mg/L)	0.0	0.0	0.1	0.0	0.2
9	HCO3 (mg/L)	123	149	138	192	156
10	K (mg/L)	3.3	4.6	2.2	2.9	2.3
11	Mg (mg/L)	10.6	17.8	14.6	21.4	16.5
12	Na (mg/L)	25.0	29.9	28.7	38.5	29.9
13	NH3-N (mg N/L)	0.05	0.09	0.03	0.14	0.01
14	NO2+NO3 (mg N/L)	1.17	0.61	0.85		
15	NO2-N (mgN/L)	0.00	0.00	0.04		
16	NO3-N (mgN/L)	1.17	0.61	0.81	0.79	0.73
17	o-PO4-P (mg P/L)	0.110	0.051		0.014	0.024
18	P-Tot (mgP/L)			0.060		
19	SiO2 (mg/L)	11.5	11.4	16.5	17.4	24.6
20	SO4 (mg/L)	10.4	17.5	20.6	32.9	26.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	5.1	2.8		3.9	1.9
2	COD (mg/L)	14.4	9.9			
3	DO (mg/L)	6.9	6.9		7.8	7.3
4	DO_SAT% (%)	92	89		94	94
	TRACE & TOXIC					
1	As (µg/L)		3.3		9.8	
2	Cd (µg/L)		0.0			
3	Cr (µg/L)		1.6			
4	Cu (µg/L)		5.5		3.0	
5	Hg (µg/L)					
6	Ni (µg/L)		4.5		9.3	
7	Pb (µg/L)		1.1			
8	Zn (µg/L)		7.6			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	59	74	60	74	68
2	HAR_Total (mgCaCO3/L)	103	148	121	163	137
3	Na% (%)	34	30	34	34	32
4	RSC (-)	0.0	0.0	0.4	0.2	0.2
5	SAR (-)	1.1	1.1	1.1	1.3	1.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	27.07	61.26	43.04	63.43
2	EC_FLD (µmho/cm)	422	274	454	410
3	EC_GEN (µmho/cm)	422	271	454	405
4	pH_FLD (pH units)	8.2	7.8	8.0	8.0
5	pH_GEN (pH units)	8.1	8.0	8.4	8.0
6	TDS (mg/L)				219
7	Temp (deg C)	29.5	29.7	28.0	27.7
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	23.8	5.1
2	ALK-TOT (mgCaCO3/L)	160	112	179	159
3	B (mg/L)	0.11			
4	Ca (mg/L)	32	19	34	30
5	Cl (mg/L)	49.6	32.5	47.3	39.7
6	CO3 (mg/L)	0.0	0.0	28.7	6.2
7	F (mg/L)	0.47	0.41	0.74	0.41
8	Fe (mg/L)	0.0	0.0	0.0	0.1
9	HCO3 (mg/L)	195	137	160	181
10	K (mg/L)	2.9	2.5	2.5	3.0
11	Mg (mg/L)	18.5	14.3	25.3	23.8
12	Na (mg/L)	33.8	23.6	33.3	29.5
13	NH3-N (mg N/L)	0.00		0.39	0.22
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)	0.64	0.29	0.09	0.43
17	o-PO4-P (mg P/L)	0.000			
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	24.6			
20	SO4 (mg/L)	15.4	10.9	20.6	18.6
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	2.1	2.0	3.0	4.7
2	COD (mg/L)			9.4	11.3
3	DO (mg/L)	8.5	6.6	8.2	7.2
4	DO_SAT% (%)	111	86	105	91
	TRACE & TOXIC				
1	As (µg/L)		0.4	2.2	3.0
2	Cd (µg/L)		0.4	0.0	0.0
3	Cr (µg/L)		3.3	0.2	0.7
4	Cu (µg/L)		3.0	0.6	1.4
5	Hg (µg/L)			0.3	
6	Ni (µg/L)		3.6	8.7	8.9
7	Pb (µg/L)		5.1	1.5	0.6
8	Zn (µg/L)		232.0	1.9	4.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	80	47	84	74
2	HAR_Total (mgCaCO3/L)	157	106	190	173
3	Na% (%)	32	32	27	27
4	RSC (-)	0.1	0.1	0.0	0.0
5	SAR (-)	1.2	1.0	1.1	1.0
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : URACHIKOTTAI (CC000K5)

Division : SR Division, Coimbatore

Local River : Cauvery

Sub-Division : MCSD, Coimbatore

River Water

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	121.0	52.77	No Flow	37.13
2	EC_FLD (µmho/cm)	385	464		476
3	EC_GEN (µmho/cm)	376	464		476
4	pH_FLD (pH units)	8.1	8.3		8.0
5	pH_GEN (pH units)	7.9	8.3		8.0
6	TDS (mg/L)	216	262		271
7	Temp (deg C)	30.3	30.5		30.6
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	9.9		0.0
2	ALK-TOT (mgCaCO3/L)	133	155		151
3	B (mg/L)	0.05	0.12		0.10
4	Ca (mg/L)	15	29		24
5	Cl (mg/L)	35.2	43.7		55.0
6	CO3 (mg/L)	0.0	12.0		0.0
7	F (mg/L)	0.40	0.46		0.43
8	Fe (mg/L)	0.0	0.0		0.0
9	HCO3 (mg/L)	162	164		184
10	K (mg/L)	4.1	4.5		4.9
11	Mg (mg/L)	23.9	23.8		25.5
12	Na (mg/L)	26.6	36.1		40.8
13	NH3-N (mg N/L)	0.16	0.08		0.07
14	NO2+NO3 (mg N/L)	1.59	6.22		0.84
15	NO2-N (mgN/L)	0.01	0.00		0.27
16	NO3-N (mgN/L)	1.57	6.22		0.56
17	o-PO4-P (mg P/L)	0.030	0.063		0.022
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	17.9	18.4		15.2
20	SO4 (mg/L)	17.6	21.6		28.1
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	4.3	5.3		3.9
2	COD (mg/L)	11.0	16.0		14.1
3	DO (mg/L)	7.2	7.2		6.9
4	DO_SAT% (%)	95	96		92
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Hg (µg/L)				
6	Ni (µg/L)				
7	Pb (µg/L)				
8	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	38	73		60
2	HAR_Total (mgCaCO3/L)	137	173		166
3	Na% (%)	29	31		34
4	RSC (-)	0.0	0.0		0.0
5	SAR (-)	1.0	1.2		1.4
	PESTICIDES				

HISTORY SHEET

Water Year : 2017-2018

Site : THEVUR State : Tamil Nadu Basin : Cauvery Tributary : Sarabenga Sub-Sub Tributary : - Division : SR Division, Coimbatore Drainage Area : 1248 Sq. Km. Latitude : 11°31'38" Zero of Gauge (m) : 168.000 (m.s.l) Opening Date Gauge : 07/01/1998 Discharge : 24/09/1999 Sediment : Water Quality : 01/10/2001	Code : CCH00C3 District : Salem Independent River : Cauvery Sub Tributary : - Local River : Sarabenga Sub-Division : Middle Cauvery SD, Coimbatore Bank : Left Longitude : 77°45'03" 07/01/1998 Closing Date
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Water Quality Datasheet for the period : 2017-2018

Station Name : THEVUR (CCH00C3)

Division : SR Division, Coimbatore

Local River : Sarabenga

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Pb (μg/L)			
6	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : THEVUR (CCH00C3)

Division : SR Division, Coimbatore

Local River : Sarabenga

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Pb (μg/L)			
6	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : THEVUR (CCH00C3)

Division : SR Division, Coimbatore

Local River : Sarabenga

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Pb (μg/L)			
6	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : THEVUR (CCH00C3)

Division : SR Division, Coimbatore

Local River : Sarabenga

Sub-Division : MCSD, Coimbatore

River Water Analysis

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Pb (μg/L)			
6	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THEVUR (CCH00C3)

Division : SR Division, Coimbatore

Local River : Sarabenga

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	0.131	Dry Bed	Dry Bed	0.075	0.385
2	EC_GEN (µmho/cm)	763			676	618
3	pH_GEN (pH units)	8.0			7.6	7.7
4	TDS (mg/L)					
5	Temp (deg C)	27.5			30.0	28.5
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	283			300	245
2	B (mg/L)	0.27			0.03	
3	Ca (mg/L)	53			43	30
4	Cl (mg/L)	50.0			62.8	67.7
5	F (mg/L)	0.73			1.06	1.35
6	Fe (mg/L)	0.1			0.0	
7	HCO3 (mg/L)	345			366	299
8	K (mg/L)	5.3			3.7	5.0
9	Mg (mg/L)	28.2			32.1	32.6
10	Na (mg/L)	77.4			71.5	73.8
11	NH3-N (mg N/L)	0.06			0.00	
12	NO2+NO3 (mg N/L)	5.34				
13	NO2-N (mgN/L)	0.18				
14	NO3-N (mgN/L)	5.16			6.26	4.35
15	o-PO4-P (mg P/L)				2.329	
16	P-Tot (mgP/L)	0.072				
17	SiO2 (mg/L)	33.5			33.8	
18	SO4 (mg/L)	49.2			29.1	36.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	132			108	76
2	HAR_Total (mgCaCO3/L)	250			242	212
3	Na% (%)	40			39	43
4	RSC (-)	0.7			1.2	0.7
5	SAR (-)	2.1			2.0	2.2
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THEVUR (CCH00C3)

Division : SR Division, Coimbatore

Local River : Sarabenga

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	Dry Bed	0.041	0.192	0.000	Dry Bed
2	EC_GEN (µmho/cm)		570	452		
3	pH_GEN (pH units)		7.8	7.7		
4	TDS (mg/L)			241		
5	Temp (deg C)		30.0	28.0		
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)		207	150		
2	B (mg/L)					
3	Ca (mg/L)		33	26		
4	Cl (mg/L)		57.5	35.6		
5	F (mg/L)		0.16	0.59		
6	Fe (mg/L)					
7	HCO3 (mg/L)		253	183		
8	K (mg/L)		4.9	6.6		
9	Mg (mg/L)		33.5	21.5		
10	Na (mg/L)		44.5	36.2		
11	NH3-N (mg N/L)		0.16	0.01		
12	NO2+NO3 (mg N/L)					
13	NO2-N (mgN/L)					
14	NO3-N (mgN/L)		0.45	2.97		
15	o-PO4-P (mg P/L)					
16	P-Tot (mgP/L)					
17	SiO2 (mg/L)					
18	SO4 (mg/L)		41.9	39.3		
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)		17.0	16.7		
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		83	66		
2	HAR_Total (mgCaCO3/L)		222	155		
3	Na% (%)		30	33		
4	RSC (-)		0.0	0.0		
5	SAR (-)		1.3	1.3		
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THEVUR (CCH00C3)

Division : SR Division, Coimbatore

Local River : Sarabenga

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	Dry Bed	0.171	0.787	0.590	2.857
2	EC_GEN (µmho/cm)		734	837	735	629
3	pH_GEN (pH units)		8.2	7.9	7.9	8.0
4	TDS (mg/L)					
5	Temp (deg C)		27.0	27.5		26.6
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)		199	298	324	265
2	B (mg/L)		0.31	0.17	0.34	0.17
3	Ca (mg/L)		24	56	50	50
4	Cl (mg/L)		32.8	64.0	64.3	71.0
5	F (mg/L)		0.87	0.81	1.14	1.01
6	Fe (mg/L)		0.1		0.1	0.0
7	HCO3 (mg/L)		243	364	395	323
8	K (mg/L)		4.8	5.8	4.1	5.3
9	Mg (mg/L)		13.6	34.3	36.5	26.3
10	Na (mg/L)		76.4	60.0	76.7	68.3
11	NH3-N (mg N/L)		0.05		0.06	0.04
12	NO2+NO3 (mg N/L)		5.34			
13	NO2-N (mgN/L)		0.02			
14	NO3-N (mgN/L)		5.32	8.38	2.50	5.13
15	o-PO4-P (mg P/L)				0.095	0.613
16	P-Tot (mgP/L)		0.079			
17	SiO2 (mg/L)		27.3		39.4	33.3
18	SO4 (mg/L)		41.8	28.2	65.0	39.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_ Ca (mgCaCO3/L)		60	140	126	124
2	HAR_ Total (mgCaCO3/L)		117	283	278	234
3	Na% (%)		58	31	37	38
4	RSC (-)		1.7	0.3	1.0	0.7
5	SAR (-)		3.1	1.6	2.0	1.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THEVUR (CCH00C3)

Division : SR Division, Coimbatore

Local River : Sarabenga

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	1.530	Dry Bed	0.490	0.739	1.022
2	EC_GEN (µmho/cm)	651		679	704	905
3	pH_GEN (pH units)	7.6		8.1	8.0	8.0
4	TDS (mg/L)				397	519
5	Temp (deg C)	25.8		27.8	27.0	27.4
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	245		262	241	298
2	B (mg/L)				0.00	0.15
3	Ca (mg/L)	42		56	43	35
4	Cl (mg/L)	72.4		58.1	53.3	88.9
5	F (mg/L)	1.19		0.91	0.79	0.96
6	Fe (mg/L)	0.1			0.0	0.0
7	HCO3 (mg/L)	299		319	294	363
8	K (mg/L)	5.5		3.9	5.3	6.4
9	Mg (mg/L)	25.3		30.4	29.3	53.2
10	Na (mg/L)	79.7		48.4	67.8	88.0
11	NH3-N (mg N/L)			0.14	0.20	0.38
12	NO2+NO3 (mg N/L)				4.02	5.59
13	NO2-N (mgN/L)				0.00	0.01
14	NO3-N (mgN/L)	4.24		1.83	4.94	5.58
15	o-PO4-P (mg P/L)				0.000	0.082
16	P-Tot (mgP/L)					
17	SiO2 (mg/L)				27.5	21.9
18	SO4 (mg/L)	40.6		48.1	45.0	54.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)			10.7	16.9	13.8
	TRACE & TOXIC					
1	As (µg/L)	0.7				
2	Cd (µg/L)	0.0			0.8	
3	Cr (µg/L)	5.0			1.6	
4	Cu (µg/L)	11.3			0.9	
5	Ni (µg/L)				0.1	
6	Pb (µg/L)	2.6			0.8	
7	Zn (µg/L)	26.3			0.0	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	106		141	109	88
2	HAR_Total (mgCaCO3/L)	212		268	231	309
3	Na% (%)	44		28	39	38
4	RSC (-)	0.7		0.1	0.3	0.3
5	SAR (-)	2.4		1.3	2.0	2.2
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THEVUR (CCH00C3)

Division : SR Division, Coimbatore

Local River : Sarabenga

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	Dry Bed	Dry Bed
2	EC_GEN (µmho/cm)					
3	pH_GEN (pH units)					
4	TDS (mg/L)					
5	Temp (deg C)					
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)					
2	B (mg/L)					
3	Ca (mg/L)					
4	Cl (mg/L)					
5	F (mg/L)					
6	Fe (mg/L)					
7	HCO3 (mg/L)					
8	K (mg/L)					
9	Mg (mg/L)					
10	Na (mg/L)					
11	NH3-N (mg N/L)					
12	NO2+NO3 (mg N/L)					
13	NO2-N (mgN/L)					
14	NO3-N (mgN/L)					
15	o-PO4-P (mg P/L)					
16	P-Tot (mgP/L)					
17	SiO2 (mg/L)					
18	SO4 (mg/L)					
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)					
2	HAR_Total (mgCaCO3/L)					
3	Na% (%)					
4	RSC (-)					
5	SAR (-)					
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THEVUR (CCH00C3)

Division : SR Division, Coimbatore

Local River : Sarabenga

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	0.131	Dry Bed	Dry Bed	Dry Bed
2	EC_GEN (µmho/cm)	743			
3	pH_GEN (pH units)	7.8			
4	TDS (mg/L)				
5	Temp (deg C)	29.5			
	CHEMICAL				
1	ALK-TOT (mgCaCO3/L)	292			
2	B (mg/L)				
3	Ca (mg/L)	61			
4	Cl (mg/L)	81.8			
5	F (mg/L)	1.03			
6	Fe (mg/L)				
7	HCO3 (mg/L)	356			
8	K (mg/L)	5.2			
9	Mg (mg/L)	22.4			
10	Na (mg/L)	83.0			
11	NH3-N (mg N/L)				
12	NO2+NO3 (mg N/L)				
13	NO2-N (mgN/L)				
14	NO3-N (mgN/L)	1.87			
15	o-PO4-P (mg P/L)				
16	P-Tot (mgP/L)				
17	SiO2 (mg/L)				
18	SO4 (mg/L)	61.8			
	BIOLOGICAL/BACTERIOLOGICAL				
1	COD (mg/L)				
	TRACE & TOXIC				
1	As (µg/L)	1.1			
2	Cd (µg/L)	0.0			
3	Cr (µg/L)	22.1			
4	Cu (µg/L)	3.5			
5	Ni (µg/L)				
6	Pb (µg/L)	0.2			
7	Zn (µg/L)	49.7			
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	152			
2	HAR_Total (mgCaCO3/L)	245			
3	Na% (%)	42			
4	RSC (-)	1.0			
5	SAR (-)	2.3			
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THEVUR (CCH00C3)

Division : SR Division, Coimbatore

Local River : Sarabenga

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	Dry Bed
2	EC_GEN (µmho/cm)				
3	pH_GEN (pH units)				
4	TDS (mg/L)				
5	Temp (deg C)				
	CHEMICAL				
1	ALK-TOT (mgCaCO3/L)				
2	B (mg/L)				
3	Ca (mg/L)				
4	Cl (mg/L)				
5	F (mg/L)				
6	Fe (mg/L)				
7	HCO3 (mg/L)				
8	K (mg/L)				
9	Mg (mg/L)				
10	Na (mg/L)				
11	NH3-N (mg N/L)				
12	NO2+NO3 (mg N/L)				
13	NO2-N (mgN/L)				
14	NO3-N (mgN/L)				
15	o-PO4-P (mg P/L)				
16	P-Tot (mgP/L)				
17	SiO2 (mg/L)				
18	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	COD (mg/L)				
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

HISTORY SHEET

Water Year : 2017-2018

Site : SEVANUR State : Tamil Nadu Basin : Cauvery Tributary : Chittar Sub-Sub Tributary : - Division : SR Division, Coimbatore Drainage Area : 258 Sq. Km. Latitude : 11°33'07" Zero of Gauge (m) : 170.000 (m.s.l) Opening Date Gauge : 27/11/1997 Discharge : 20/09/1999 Sediment : Water Quality : 01/10/2001	Code : CCI00C4 District Erode Independent River : Cauvery Sub Tributary : - Local River : Chittar Sub-Division : Middle Cauvery SD, Coimbatore Bank : Right Longitude : 77°43'55" 27/11/1997 Closing Date
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Water Quality Datasheet for the period : 2017-2018

Station Name : SEVANUR (CCI00C4)

Division : SR Division, Coimbatore

Local River : Chittar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Analysis

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)			
	TRACE & TOXIC			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : SEVANUR (CCI00C4)

Division : SR Division, Coimbatore

Local River : Chittar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Analysis

S.No	Parameters	01/09/2017	05/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	0.989	Dry Bed
2	Colour_Cod (-)		Brown	
3	EC_GEN (µmho/cm)		327	
4	Odour_Code (-)		odour free	
5	pH_GEN (pH units)		7.5	
6	TDS (mg/L)		189	
7	Temp (deg C)		24.0	
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	
2	ALK-TOT (mgCaCO3/L)		90	
3	B (mg/L)		0.06	
4	Ca (mg/L)		37	
5	Cl (mg/L)		33.3	
6	CO3 (mg/L)		0.0	
7	F (mg/L)		0.28	
8	Fe (mg/L)		0.0	
9	HCO3 (mg/L)		109	
10	K (mg/L)		9.2	
11	Mg (mg/L)		3.7	
12	Na (mg/L)		24.5	
13	NH3-N (mg N/L)		0.22	
14	NO2+NO3 (mg N/L)		1.30	
15	NO2-N (mgN/L)		0.00	
16	NO3-N (mgN/L)		1.30	
17	o-PO4-P (mg P/L)		0.300	
18	SiO2 (mg/L)		11.3	
19	SO4 (mg/L)		25.0	
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)		13.1	
	TRACE & TOXIC			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		92	
2	HAR_Total (mgCaCO3/L)		108	
3	Na% (%)		31	
4	RSC (-)		0.0	
5	SAR (-)		1.0	
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : SEVANUR (CCI00C4)

Division : SR Division, Coimbatore

Local River : Chittar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Analysis

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_GEN (µmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)			
	TRACE & TOXIC			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : SEVANUR (CCI00C4)

Division : SR Division, Coimbatore

Local River : Chittar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Analysis

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)			
	TRACE & TOXIC			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : SEVANUR (CCI00C4)

Division : SR Division, Coimbatore

Local River : Chittar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	0.989	0.000	0.003
2	EC_GEN (µmho/cm)	1	327	327	327
3	pH_GEN (pH units)	1	7.5	7.5	7.5
4	TDS (mg/L)	1	189	189	189
5	Temp (deg C)	1	24.0	24.0	24
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	1	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	1	90	90	90
3	B (mg/L)	1	0.06	0.06	0.06
4	Ca (mg/L)	1	37	37	37
5	Cl (mg/L)	1	33.3	33.3	33.3
6	CO3 (mg/L)	1	0.0	0.0	0
7	F (mg/L)	1	0.28	0.28	0.28
8	Fe (mg/L)	1	0.0	0.0	0
9	HCO3 (mg/L)	1	109	109	109
10	K (mg/L)	1	9.2	9.2	9.2
11	Mg (mg/L)	1	3.7	3.7	3.7
12	Na (mg/L)	1	24.5	24.5	24.5
13	NH3-N (mg N/L)	1	0.22	0.22	0.22
14	NO2+NO3 (mg N/L)	1	1.30	1.30	1.3
15	NO2-N (mgN/L)	1	0.00	0.00	0
16	NO3-N (mgN/L)	1	1.30	1.30	1.3
17	o-PO4-P (mg P/L)	1	0.300	0.300	0.3
18	SiO2 (mg/L)	1	11.3	11.3	11.3
19	SO4 (mg/L)	1	25.0	25.0	25
	BIOLOGICAL/BACTERIOLOGICAL				
1	COD (mg/L)	1	13.1	13.1	13.1
	TRACE & TOXIC				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	1	92	92	92
2	HAR_Total (mgCaCO3/L)	1	108	108	108
3	Na% (%)	1	31	31	31
4	RSC (-)	1	0.0	0.0	0
5	SAR (-)	1	1.0	1.0	1
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SEVANUR (CCI00C4)

Division : SR Division, Coimbatore

Local River : Chittar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	0.097	Dry Bed	0.123	0.015	0.095
2	EC_GEN (µmho/cm)	638		711		440
3	pH_GEN (pH units)	7.8		7.7		7.6
4	TDS (mg/L)					
5	Temp (deg C)	28.0				28.8
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0		0.0		0.0
2	ALK-TOT (mgCaCO3/L)	253		288		217
3	B (mg/L)	0.28		0.30		
4	Ca (mg/L)	46		64		48
5	Cl (mg/L)	38.3		67.8		53.5
6	CO3 (mg/L)	0.0		0.0		0.0
7	F (mg/L)	0.69		0.82		0.92
8	Fe (mg/L)	0.1		0.3		
9	HCO3 (mg/L)	308		351		265
10	K (mg/L)	6.6		6.9		6.2
11	Mg (mg/L)	31.1		33.1		22.8
12	Na (mg/L)	45.7		60.7		46.4
13	NH3-N (mg N/L)	0.05		0.13		
14	NO2+NO3 (mg N/L)	6.38				
15	NO2-N (mgN/L)	0.16				
16	NO3-N (mgN/L)	6.22		2.33		7.32
17	o-PO4-P (mg P/L)			0.090		
18	P-Tot (mgP/L)	0.028				
19	SiO2 (mg/L)	45.2		50.1		
20	SO4 (mg/L)	23.6		38.6		22.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	114		160		120
2	HAR_Total (mgCaCO3/L)	244		298		215
3	Na% (%)	28		30		31
4	RSC (-)	0.2		0.1		0.1
5	SAR (-)	1.3		1.5		1.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SEVANUR (CCI00C4)

Division : SR Division, Coimbatore

Local River : Chittar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	Dry Bed	0.125	0.117	0.072	Dry Bed
2	EC_GEN (µmho/cm)		561	463	579	
3	pH_GEN (pH units)		7.7	7.9	7.7	
4	TDS (mg/L)			248	338	
5	Temp (deg C)		28.8	29.5	29.0	
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0	0.0	0.0	
2	ALK-TOT (mgCaCO3/L)		203	173	218	
3	B (mg/L)				0.06	
4	Ca (mg/L)		44	20	44	
5	Cl (mg/L)		52.1	39.3	48.1	
6	CO3 (mg/L)		0.0	0.0	0.0	
7	F (mg/L)		0.33	0.45		
8	Fe (mg/L)				0.0	
9	HCO3 (mg/L)		248	211	266	
10	K (mg/L)		5.5	4.8	7.0	
11	Mg (mg/L)		29.9	34.6	30.6	
12	Na (mg/L)		31.8	32.7	35.7	
13	NH3-N (mg N/L)		0.14	0.05	0.18	
14	NO2+NO3 (mg N/L)				6.16	
15	NO2-N (mgN/L)				0.06	
16	NO3-N (mgN/L)		2.13	4.22	6.10	
17	o-PO4-P (mg P/L)				0.090	
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				31.4	
20	SO4 (mg/L)		26.9	22.6	28.5	
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)		11.7	13.3	11.8	
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		109	50	111	
2	HAR_Total (mgCaCO3/L)		234	194	238	
3	Na% (%)		22	26	24	
4	RSC (-)		0.0	0.0	0.0	
5	SAR (-)		0.9	1.0	1.0	
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SEVANUR (CCI00C4)

Division : SR Division, Coimbatore

Local River : Chittar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	0.198	0.527	0.477	0.470	0.366
2	EC_GEN (µmho/cm)	327	711	792	674	689
3	pH_GEN (pH units)	7.5	8.0	7.9	7.9	8.0
4	TDS (mg/L)	189				
5	Temp (deg C)	24.0	13.8			26.1
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	9.0
2	ALK-TOT (mgCaCO3/L)	90	293	299	319	283
3	B (mg/L)	0.06	0.30	0.17	0.42	0.15
4	Ca (mg/L)	37	55	62	62	67
5	Cl (mg/L)	33.3	40.9	47.5	44.8	67.7
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	10.8
7	F (mg/L)	0.28	0.75	1.47	0.87	0.80
8	Fe (mg/L)	0.0	0.1	0.1	0.3	0.0
9	HCO3 (mg/L)	109	358	365	389	323
10	K (mg/L)	9.2	5.3	5.3	5.4	5.0
11	Mg (mg/L)	3.7	31.4	32.4	32.3	27.8
12	Na (mg/L)	24.5	50.7	55.3	49.2	55.3
13	NH3-N (mg N/L)	0.22	0.05		0.05	0.02
14	NO2+NO3 (mg N/L)	1.30	5.92			
15	NO2-N (mgN/L)	0.00	0.01			
16	NO3-N (mgN/L)	1.30	5.91	3.37	4.19	9.56
17	o-PO4-P (mg P/L)	0.300		0.010	0.050	0.423
18	P-Tot (mgP/L)		0.062			
19	SiO2 (mg/L)	11.3	31.0	2.0	43.6	48.5
20	SO4 (mg/L)	25.0	28.2	51.9	38.0	26.5
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)	13.1				
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	92	136	154	154	168
2	HAR_Total (mgCaCO3/L)	108	267	289	289	284
3	Na% (%)	31	29	29	27	29
4	RSC (-)	0.0	0.6	0.3	0.6	0.2
5	SAR (-)	1.0	1.3	1.4	1.3	1.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SEVANUR (CCI00C4)

Division : SR Division, Coimbatore

Local River : Chittar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	0.472	Dry Bed	0.351	0.360	0.313
2	EC_GEN (µmho/cm)	598		622	671	750
3	pH_GEN (pH units)	7.5		7.9	8.0	7.9
4	TDS (mg/L)				376	436
5	Temp (deg C)	26.5		26.3	26.8	26.8
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0		0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	242		252	255	282
3	B (mg/L)				0.00	0.08
4	Ca (mg/L)	51		64	46	32
5	Cl (mg/L)	60.6		46.7	50.1	60.1
6	CO3 (mg/L)	0.0		0.0	0.0	0.0
7	F (mg/L)	0.76		0.64	0.74	0.62
8	Fe (mg/L)	0.1			0.0	0.0
9	HCO3 (mg/L)	295		308	311	344
10	K (mg/L)	5.7		4.4	6.6	8.2
11	Mg (mg/L)	26.0		26.2	36.2	51.1
12	Na (mg/L)	55.4		33.3	46.4	60.5
13	NH3-N (mg N/L)			0.12	0.25	0.24
14	NO2+NO3 (mg N/L)				7.47	9.90
15	NO2-N (mgN/L)				0.03	0.05
16	NO3-N (mgN/L)	5.31		3.47	8.97	9.86
17	o-PO4-P (mg P/L)				0.000	0.140
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				31.8	28.9
20	SO4 (mg/L)	25.3		21.8	26.1	26.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)			12.8	7.5	8.7
	TRACE & TOXIC					
1	As (µg/L)	0.5				
2	Cd (µg/L)	0.1			4.2	
3	Cr (µg/L)	4.1			4.5	
4	Cu (µg/L)	18.4			1.4	
5	Ni (µg/L)				0.1	
6	Pb (µg/L)	3.3			2.2	
7	Zn (µg/L)	21.9			0.0	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	126		160	115	80
2	HAR_Total (mgCaCO3/L)	235		269	266	293
3	Na% (%)	33		21	27	30
4	RSC (-)	0.2		0.0	0.0	0.1
5	SAR (-)	1.6		0.9	1.2	1.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SEVANUR (CCI00C4)

Division : SR Division, Coimbatore

Local River : Chittar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	0.069	Dry Bed
2	EC_GEN (µmho/cm)				911	
3	pH_GEN (pH units)				7.9	
4	TDS (mg/L)					
5	Temp (deg C)					
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)				0.0	
2	ALK-TOT (mgCaCO3/L)				355	
3	B (mg/L)				0.22	
4	Ca (mg/L)				58	
5	Cl (mg/L)				62.0	
6	CO3 (mg/L)				0.0	
7	F (mg/L)				0.96	
8	Fe (mg/L)				0.1	
9	HCO3 (mg/L)				434	
10	K (mg/L)				7.4	
11	Mg (mg/L)				36.9	
12	Na (mg/L)				85.6	
13	NH3-N (mg N/L)				0.09	
14	NO2+NO3 (mg N/L)					
15	NO2-N (mgN/L)					
16	NO3-N (mgN/L)				2.97	
17	o-PO4-P (mg P/L)				0.026	
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				15.3	
20	SO4 (mg/L)				42.4	
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)					
	TRACE & TOXIC					
1	As (µg/L)				25.0	
2	Cd (µg/L)					
3	Cr (µg/L)				4.8	
4	Cu (µg/L)				9.2	
5	Ni (µg/L)				22.3	
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)				144	
2	HAR_Total (mgCaCO3/L)				298	
3	Na% (%)				38	
4	RSC (-)				1.2	
5	SAR (-)				2.2	
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SEVANUR (CCI00C4)

Division : SR Division, Coimbatore

Local River : Chittar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	Dry Bed
2	EC_GEN (μmho/cm)				
3	pH_GEN (pH units)				
4	TDS (mg/L)				
5	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	B (mg/L)				
4	Ca (mg/L)				
5	Cl (mg/L)				
6	CO3 (mg/L)				
7	F (mg/L)				
8	Fe (mg/L)				
9	HCO3 (mg/L)				
10	K (mg/L)				
11	Mg (mg/L)				
12	Na (mg/L)				
13	NH3-N (mg N/L)				
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)				
17	o-PO4-P (mg P/L)				
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)				
20	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	COD (mg/L)				
	TRACE & TOXIC				
1	As (μg/L)				
2	Cd (μg/L)				
3	Cr (μg/L)				
4	Cu (μg/L)				
5	Ni (μg/L)				
6	Pb (μg/L)				
7	Zn (μg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SEVANUR (CCI00C4)

Division : SR Division, Coimbatore

Local River : Chittar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	Dry Bed
2	EC_GEN (μmho/cm)				
3	pH_GEN (pH units)				
4	TDS (mg/L)				
5	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	B (mg/L)				
4	Ca (mg/L)				
5	Cl (mg/L)				
6	CO3 (mg/L)				
7	F (mg/L)				
8	Fe (mg/L)				
9	HCO3 (mg/L)				
10	K (mg/L)				
11	Mg (mg/L)				
12	Na (mg/L)				
13	NH3-N (mg N/L)				
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)				
17	o-PO4-P (mg P/L)				
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)				
20	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	COD (mg/L)				
	TRACE & TOXIC				
1	As (μg/L)				
2	Cd (μg/L)				
3	Cr (μg/L)				
4	Cu (μg/L)				
5	Ni (μg/L)				
6	Pb (μg/L)				
7	Zn (μg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: THOPPUR	Code	: CCJ0012
State	: Tamil Nadu	District	Salem
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Thoppaiyar	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Thoppaiyar
Division	: SR Division, Coimbatore	Sub-Division	: Lower Cauvery SD, Trichy
Drainage Area	: 362 Sq. Km.	Bank	: Left
Latitude	: 11°56'18"	Longitude	: 78°03'26"
Zero of Gauge (m)	: 320.000 (m.s.l)	08/01/1998	
	Opening Date	Closing Date	
Gauge	: 08/01/1998		
Discharge	: 21/10/1999		
Sediment	:		
Water Quality	: 01/11/2001		

Water Quality Datasheet for the period : 2017-2018

Station Name : THOPPUR (CCJ0012)

Division : SR Division, Coimbatore

Local River : Thoppaiyar

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/06/2017	01/07/2017	02/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	1.098
2	Colour_Cod (-)			Light Brown
3	EC_GEN (μmho/cm)			156
4	Odour_Code (-)			odour free
5	pH_GEN (pH units)			7.1
6	TDS (mg/L)			89
7	Temp (deg C)			26.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			0.0
2	ALK-TOT (mgCaCO3/L)			38
3	B (mg/L)			0.04
4	Ca (mg/L)			11
5	Cl (mg/L)			17.0
6	CO3 (mg/L)			0.0
7	F (mg/L)			0.25
8	Fe (mg/L)			0.5
9	HCO3 (mg/L)			46
10	K (mg/L)			3.9
11	Mg (mg/L)			6.6
12	Na (mg/L)			12.5
13	NH3-N (mg N/L)			0.18
14	NO2+NO3 (mg N/L)			2.40
15	NO2-N (mgN/L)			0.26
16	NO3-N (mgN/L)			2.14
17	o-PO4-P (mg P/L)			0.180
18	SiO2 (mg/L)			12.6
19	SO4 (mg/L)			15.0
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			3.0
2	Cd (μg/L)			0.0
3	Cr (μg/L)			2.0
4	Cu (μg/L)			4.0
5	Pb (μg/L)			1.0
6	Zn (μg/L)			9.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			27
2	HAR_Total (mgCaCO3/L)			55
3	Na% (%)			31
4	RSC (-)			0.0
5	SAR (-)			0.7
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : THOPPUR (CCJ0012)

Division : SR Division, Coimbatore

Local River : Thoppaiyar

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	06/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	1.028	No Flow	No Flow
2	Colour_Cod (-)	Light Brown		
3	EC_GEN (μmho/cm)	528		
4	Odour_Code (-)	odour free		
5	pH_GEN (pH units)	7.8		
6	TDS (mg/L)	301		
7	Temp (deg C)	25.0		
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0		
2	ALK-TOT (mgCaCO3/L)	200		
3	B (mg/L)	0.08		
4	Ca (mg/L)	28		
5	Cl (mg/L)	37.4		
6	CO3 (mg/L)	0.0		
7	F (mg/L)	0.65		
8	Fe (mg/L)	0.0		
9	HCO3 (mg/L)	244		
10	K (mg/L)	4.3		
11	Mg (mg/L)	30.9		
12	Na (mg/L)	40.2		
13	NH3-N (mg N/L)	0.11		
14	NO2+NO3 (mg N/L)	1.30		
15	NO2-N (mgN/L)	0.00		
16	NO3-N (mgN/L)	1.30		
17	o-PO4-P (mg P/L)	0.140		
18	SiO2 (mg/L)	16.3		
19	SO4 (mg/L)	23.1		
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)	20.4		
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Pb (μg/L)			
6	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	69		
2	HAR_Total (mgCaCO3/L)	198		
3	Na% (%)	30		
4	RSC (-)	0.1		
5	SAR (-)	1.2		
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : THOPPUR (CCJ0012)

Division : SR Division, Coimbatore

Local River : Thoppaiyar

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Pb (μg/L)			
6	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : THOPPUR (CCJ0012)

Division : SR Division, Coimbatore

Local River : Thoppaiyar

River Water Analysis

Sub-Division : Lower Cauvery SD, Trichy

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH3-N (mg N/L)			
14	NO2+NO3 (mg N/L)			
15	NO2-N (mgN/L)			
16	NO3-N (mgN/L)			
17	o-PO4-P (mg P/L)			
18	SiO2 (mg/L)			
19	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	COD (mg/L)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Pb (μg/L)			
6	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : THOPPUR (CCJ0012)

Division : SR Division, Coimbatore

Local River : Thoppaiyar

Sub-Division : Lower Cauvery SD, Trichy

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	1.098	0.000	0.006
2	EC_GEN (μmho/cm)	2	528	156	342
3	pH_GEN (pH units)	2	7.8	7.1	7.5
4	TDS (mg/L)	2	301	89	195
5	Temp (deg C)	2	26.0	25.0	25.5
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	2	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	2	200	38	119
3	B (mg/L)	2	0.08	0.04	0.06
4	Ca (mg/L)	2	28	11	19
5	Cl (mg/L)	2	37.4	17.0	27.2
6	CO3 (mg/L)	2	0.0	0.0	0
7	F (mg/L)	2	0.65	0.25	0.45
8	Fe (mg/L)	2	0.5	0.0	0.3
9	HCO3 (mg/L)	2	244	46	145
10	K (mg/L)	2	4.3	3.9	4.1
11	Mg (mg/L)	2	30.9	6.6	18.7
12	Na (mg/L)	2	40.2	12.5	26.4
13	NH3-N (mg N/L)	2	0.18	0.11	0.14
14	NO2+NO3 (mg N/L)	2	2.40	1.30	1.85
15	NO2-N (mgN/L)	2	0.26	0.00	0.13
16	NO3-N (mgN/L)	2	2.14	1.30	1.72
17	o-PO4-P (mg P/L)	2	0.180	0.140	0.16
18	SiO2 (mg/L)	2	16.3	12.6	14.5
19	SO4 (mg/L)	2	23.1	15.0	19.1
	BIOLOGICAL/BACTERIOLOGICAL				
1	COD (mg/L)	1	20.4	20.4	20.4
	TRACE & TOXIC				
1	As (μg/L)	1	3.0	3.0	3
2	Cd (μg/L)	1	0.0	0.0	0
3	Cr (μg/L)	1	2.0	2.0	2
4	Cu (μg/L)	1	4.0	4.0	4
5	Pb (μg/L)	1	1.0	1.0	1
6	Zn (μg/L)	1	9.0	9.0	9
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	2	69	27	48
2	HAR_Total (mgCaCO3/L)	2	198	55	126
3	Na% (%)	2	31	30	31
4	RSC (-)	2	0.1	0.0	0
5	SAR (-)	2	1.2	0.7	1
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THOPPUR (CCJ0012)

Division : SR Division, Coimbatore

Local River : Thoppaiyar

Sub-Division : Lower Cauvery SD, Trichy

River Water

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	0.046	0.000	0.000	0.008	0.085
2	EC_GEN (μmho/cm)	1060			1275	1186
3	pH_GEN (pH units)	7.9			7.8	7.7
4	TDS (mg/L)					
5	Temp (deg C)	28.0			26.3	26.8
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0			0.0	0.0
2	ALK-TOT (mgCaCO3/L)	342			400	401
3	B (mg/L)	0.32			0.11	
4	Ca (mg/L)	46			64	43
5	Cl (mg/L)	91.3			165.2	148.0
6	CO3 (mg/L)	0.0			0.0	0.0
7	F (mg/L)	1.13			1.18	1.59
8	Fe (mg/L)	0.1			0.0	
9	HCO3 (mg/L)	418			488	490
10	K (mg/L)	4.1			2.8	5.0
11	Mg (mg/L)	52.5			81.2	71.4
12	Na (mg/L)	115.2			117.5	141.0
13	NH3-N (mg N/L)	0.08			0.24	
14	NO2+NO3 (mg N/L)	8.25				
15	NO2-N (mgN/L)	0.45				
16	NO3-N (mgN/L)	7.80			19.55	6.69
17	o-PO4-P (mg P/L)				0.725	
18	P-Tot (mgP/L)	0.024				
19	SiO2 (mg/L)	48.3			49.0	
20	SO4 (mg/L)	85.7			107.5	105.7
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)					
	TRACE & TOXIC					
1	As (μg/L)					
2	Cd (μg/L)					
3	Cr (μg/L)					
4	Cu (μg/L)					
5	Pb (μg/L)					
6	Zn (μg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	116			160	107
2	HAR_Total (mgCaCO3/L)	335			499	405
3	Na% (%)	43			35	43
4	RSC (-)	0.2			0.0	0.1
5	SAR (-)	2.8			2.3	3.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THOPPUR (CCJ0012)

Division : SR Division, Coimbatore

Local River : Thoppaiyar

Sub-Division : Lower Cauvery SD, Trichy

River Water

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	0.000	0.000	0.000	0.000	No Flow
2	EC_GEN (μmho/cm)					
3	pH_GEN (pH units)					
4	TDS (mg/L)					
5	Temp (deg C)					
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)					
2	ALK-TOT (mgCaCO3/L)					
3	B (mg/L)					
4	Ca (mg/L)					
5	Cl (mg/L)					
6	CO3 (mg/L)					
7	F (mg/L)					
8	Fe (mg/L)					
9	HCO3 (mg/L)					
10	K (mg/L)					
11	Mg (mg/L)					
12	Na (mg/L)					
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)					
15	NO2-N (mgN/L)					
16	NO3-N (mgN/L)					
17	o-PO4-P (mg P/L)					
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)					
20	SO4 (mg/L)					
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)					
	TRACE & TOXIC					
1	As (μg/L)					
2	Cd (μg/L)					
3	Cr (μg/L)					
4	Cu (μg/L)					
5	Pb (μg/L)					
6	Zn (μg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)					
2	HAR_Total (mgCaCO3/L)					
3	Na% (%)					
4	RSC (-)					
5	SAR (-)					
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THOPPUR (CCJ0012)

Division : SR Division, Coimbatore

Local River : Thoppaiyar

Sub-Division : Lower Cauvery SD, Trichy

River Water

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	0.206	0.048	0.000	0.000	0.501
2	EC_GEN (µmho/cm)	342	1440			1202
3	pH_GEN (pH units)	7.5	8.5			8.1
4	TDS (mg/L)	195				
5	Temp (deg C)	25.5	28.0			25.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	40.0			0.0
2	ALK-TOT (mgCaCO3/L)	119	466			428
3	B (mg/L)	0.06	0.31			0.28
4	Ca (mg/L)	19	51			60
5	Cl (mg/L)	27.2	110.2			147.9
6	CO3 (mg/L)	0.0	48.2			0.0
7	F (mg/L)	0.45	1.26			1.16
8	Fe (mg/L)	0.3	0.1			0.0
9	HCO3 (mg/L)	145	471			522
10	K (mg/L)	4.1	3.5			3.6
11	Mg (mg/L)	18.7	66.1			70.2
12	Na (mg/L)	26.4	160.5			122.7
13	NH3-N (mg N/L)	0.14	0.06			0.04
14	NO2+NO3 (mg N/L)	1.85	14.03			
15	NO2-N (mgN/L)	0.13	0.03			
16	NO3-N (mgN/L)	1.72	14.00			14.38
17	o-PO4-P (mg P/L)	0.160				0.545
18	P-Tot (mgP/L)		0.032			
19	SiO2 (mg/L)	14.5	29.4			51.5
20	SO4 (mg/L)	19.1	111.4			98.5
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)	20.4				
	TRACE & TOXIC					
1	As (µg/L)	3.0				
2	Cd (µg/L)	0.0				
3	Cr (µg/L)	2.0				
4	Cu (µg/L)	4.0				
5	Pb (µg/L)	1.0				
6	Zn (µg/L)	9.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	48	128			149
2	HAR_Total (mgCaCO3/L)	126	404			442
3	Na% (%)	31	46			38
4	RSC (-)	0.0	1.3			0.5
5	SAR (-)	1.0	3.5			2.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THOPPUR (CCJ0012)

Division : SR Division, Coimbatore

Local River : Thoppaiyar

Sub-Division : Lower Cauvery SD, Trichy

River Water

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	0.100	0.000	0.000	0.000	0.939
2	EC_GEN (µmho/cm)	1074				508
3	pH_GEN (pH units)	7.8				8.1
4	TDS (mg/L)					296
5	Temp (deg C)	25.0				24.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0				0.0
2	ALK-TOT (mgCaCO3/L)	378				157
3	B (mg/L)					0.01
4	Ca (mg/L)	40				32
5	Cl (mg/L)	129.1				50.0
6	CO3 (mg/L)	0.0				0.0
7	F (mg/L)	1.25				0.59
8	Fe (mg/L)	0.1				0.0
9	HCO3 (mg/L)	461				191
10	K (mg/L)	4.0				6.2
11	Mg (mg/L)	63.4				28.7
12	Na (mg/L)	125.9				38.2
13	NH3-N (mg N/L)					0.10
14	NO2+NO3 (mg N/L)					9.29
15	NO2-N (mgN/L)					0.01
16	NO3-N (mgN/L)	4.22				9.28
17	o-PO4-P (mg P/L)					0.390
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)					5.7
20	SO4 (mg/L)	91.7				29.7
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)					9.6
	TRACE & TOXIC					
1	As (µg/L)	0.9				
2	Cd (µg/L)	0.2				
3	Cr (µg/L)	4.8				
4	Cu (µg/L)	27.3				
5	Pb (µg/L)	4.3				
6	Zn (µg/L)	12.1				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	101				79
2	HAR_Total (mgCaCO3/L)	366				199
3	Na% (%)	43				29
4	RSC (-)	0.4				0.0
5	SAR (-)	2.9				1.2
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THOPPUR (CCJ0012)

Division : SR Division, Coimbatore

Local River : Thoppaiyar

Sub-Division : Lower Cauvery SD, Trichy

River Water

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	Dry Bed	Dry Bed	0.204	Dry Bed	Dry Bed
2	EC_GEN (μmho/cm)			1243		
3	pH_GEN (pH units)			8.0		
4	TDS (mg/L)					
5	Temp (deg C)			25.5		
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)			0.0		
2	ALK-TOT (mgCaCO3/L)			409		
3	B (mg/L)			0.29		
4	Ca (mg/L)			49		
5	Cl (mg/L)			103.0		
6	CO3 (mg/L)			0.0		
7	F (mg/L)			1.18		
8	Fe (mg/L)			0.1		
9	HCO3 (mg/L)			499		
10	K (mg/L)			4.8		
11	Mg (mg/L)			58.8		
12	Na (mg/L)			133.3		
13	NH3-N (mg N/L)			0.05		
14	NO2+NO3 (mg N/L)			8.45		
15	NO2-N (mgN/L)			0.03		
16	NO3-N (mgN/L)			8.42		
17	o-PO4-P (mg P/L)					
18	P-Tot (mgP/L)			0.133		
19	SiO2 (mg/L)			40.0		
20	SO4 (mg/L)			103.0		
	BIOLOGICAL/BACTERIOLOGICAL					
1	COD (mg/L)					
	TRACE & TOXIC					
1	As (μg/L)			14.3		
2	Cd (μg/L)			0.8		
3	Cr (μg/L)					
4	Cu (μg/L)			3.3		
5	Pb (μg/L)					
6	Zn (μg/L)			11.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)			122		
2	HAR_Total (mgCaCO3/L)			367		
3	Na% (%)			44		
4	RSC (-)			0.9		
5	SAR (-)			3.0		
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THOPPUR (CCJ0012)

Division : SR Division, Coimbatore

Local River : Thoppaiyar

Sub-Division : Lower Cauvery SD, Trichy

River Water

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	0.162	0.000	Dry Bed	Dry Bed
2	EC_GEN (µmho/cm)	1089	980		
3	pH_GEN (pH units)	8.0	8.1		
4	TDS (mg/L)				
5	Temp (deg C)	25.0			
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0		
2	ALK-TOT (mgCaCO3/L)	397	337		
3	B (mg/L)	0.00			
4	Ca (mg/L)	50	27		
5	Cl (mg/L)	129.0	132.2		
6	CO3 (mg/L)	0.0	0.0		
7	F (mg/L)	1.12	0.44		
8	Fe (mg/L)	0.0			
9	HCO3 (mg/L)	485	412		
10	K (mg/L)	3.6	3.5		
11	Mg (mg/L)	65.8	64.2		
12	Na (mg/L)	111.5	119.0		
13	NH3-N (mg N/L)	0.00			
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)	10.62	2.87		
17	o-PO4-P (mg P/L)	0.000			
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	41.0			
20	SO4 (mg/L)	81.4	95.6		
	BIOLOGICAL/BACTERIOLOGICAL				
1	COD (mg/L)				
	TRACE & TOXIC				
1	As (µg/L)	1.1			
2	Cd (µg/L)	0.0			
3	Cr (µg/L)	5.8			
4	Cu (µg/L)	4.2			
5	Pb (µg/L)	0.3			
6	Zn (µg/L)	66.0			
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	124	68		
2	HAR_Total (mgCaCO3/L)	398	336		
3	Na% (%)	38	43		
4	RSC (-)	0.2	0.1		
5	SAR (-)	2.4	2.8		
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THOPPUR (CCJ0012)

Division : SR Division, Coimbatore

Local River : Thoppaiyar

Sub-Division : Lower Cauvery SD, Trichy

River Water

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	Dry Bed
2	EC_GEN (µmho/cm)				
3	pH_GEN (pH units)				
4	TDS (mg/L)				
5	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	B (mg/L)				
4	Ca (mg/L)				
5	Cl (mg/L)				
6	CO3 (mg/L)				
7	F (mg/L)				
8	Fe (mg/L)				
9	HCO3 (mg/L)				
10	K (mg/L)				
11	Mg (mg/L)				
12	Na (mg/L)				
13	NH3-N (mg N/L)				
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)				
17	o-PO4-P (mg P/L)				
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)				
20	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	COD (mg/L)				
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Pb (µg/L)				
6	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: KUDLUR	Code	: CCK00L9
State	: Karnataka	District	Chamarajanagara
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Palar	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Palar
Division	: SR Division, Coimbatore	Sub-Division	: Middle Cauvery SD, Coimbatore
Drainage Area	: 709 Sq. Km.	Bank	: Right
Latitude	: 11°50'26"	Longitude	: 77°27'46"
Zero of Gauge (m)	: 433.000 (m.s.l)	09/01/1998	
	Opening Date	Closing Date	
Gauge	: 09/01/1998		
Discharge	: 06/03/1999		
Sediment	:		
Water Quality	: 02/02/2001		

Water Quality Datasheet for the period : 2017-2018

Station Name : KUDLUR (CCK00L9)

Division : SR Division, Coimbatore

Local River : Palar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Analysis

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_FLD (μ mho/cm)			
4	EC_GEN (μ mho/cm)			
5	Odour_Code (-)			
6	pH_FLD (pH units)			
7	pH_GEN (pH units)			
8	TDS (mg/L)			
9	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO ₃ /L)			
2	ALK-TOT (mgCaCO ₃ /L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO ₃ (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO ₃ (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NH ₃ -N (mg N/L)			
14	NO ₂ +NO ₃ (mg N/L)			
15	NO ₂ -N (mgN/L)			
16	NO ₃ -N (mgN/L)			
17	o-PO ₄ -P (mg P/L)			
18	SiO ₂ (mg/L)			
19	SO ₄ (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD ₃₋₂₇ (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μ g/L)			
2	Cd (μ g/L)			
3	Cr (μ g/L)			
4	Cu (μ g/L)			
5	Ni (μ g/L)			
6	Pb (μ g/L)			
7	Zn (μ g/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO ₃ /L)			
2	HAR_Total (mgCaCO ₃ /L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : KUDLUR (CCK00L9)

Division : SR Division, Coimbatore

Local River : Palar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Analysis

S.No	Parameters	04/09/2017	10/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	3.448	2.170	2.780
2	Colour_Cod (-)	Brown	Clear	Clear
3	EC_FLD (μmho/cm)	144	282	721
4	EC_GEN (μmho/cm)	144	282	721
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	8.3	8.4	8.3
7	pH_GEN (pH units)	8.3	8.4	8.3
8	TDS (mg/L)	82	159	404
9	Temp (deg C)	25.0	26.0	24.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	11.3	37.2	44.7
2	ALK-TOT (mgCaCO3/L)	38	97	288
3	B (mg/L)	0.06	0.09	0.14
4	Ca (mg/L)	12	23	37
5	Cl (mg/L)	16.8	14.8	33.7
6	CO3 (mg/L)	13.6	44.9	53.8
7	F (mg/L)	0.47	0.59	0.88
8	Fe (mg/L)	0.1	0.0	0.0
9	HCO3 (mg/L)	18	27	242
10	K (mg/L)	3.8	5.3	5.8
11	Mg (mg/L)	3.7	6.5	39.1
12	Na (mg/L)	11.8	25.2	60.8
13	NH3-N (mg N/L)	0.13	0.18	0.14
14	NO2+NO3 (mg N/L)	0.82	0.63	1.15
15	NO2-N (mgN/L)	0.00	0.00	0.00
16	NO3-N (mgN/L)	0.82	0.63	1.15
17	o-PO4-P (mg P/L)	0.090	0.030	0.100
18	SiO2 (mg/L)	10.4	16.8	21.9
19	SO4 (mg/L)	10.5	24.2	40.1
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		2.3	1.4
2	COD (mg/L)	7.4	18.7	12.4
3	DO (mg/L)		6.7	5.5
4	DO_SAT% (%)		83	66
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	31	58	92
2	HAR_Total (mgCaCO3/L)	46	85	255
3	Na% (%)	33	38	34
4	RSC (-)	0.0	0.3	0.7
5	SAR (-)	0.8	1.2	1.7
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : KUDLUR (CCK00L9)

Division : SR Division, Coimbatore

Local River : Palar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Analysis

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	1.907	No Flow	No Flow
2	Colour_Cod (-)	Clear		
3	EC_FLD (µmho/cm)	788		
4	EC_GEN (µmho/cm)	788		
5	Odour_Code (-)	odour free		
6	pH_FLD (pH units)	8.4		
7	pH_GEN (pH units)	8.4		
8	TDS (mg/L)	447		
9	Temp (deg C)	24.0		
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	47.3		
2	ALK-TOT (mgCaCO3/L)	320		
3	B (mg/L)	0.13		
4	Ca (mg/L)	41		
5	Cl (mg/L)	43.1		
6	CO3 (mg/L)	57.0		
7	F (mg/L)	0.93		
8	Fe (mg/L)	0.0		
9	HCO3 (mg/L)	274		
10	K (mg/L)	5.8		
11	Mg (mg/L)	41.0		
12	Na (mg/L)	78.0		
13	NH3-N (mg N/L)	0.16		
14	NO2+NO3 (mg N/L)	4.50		
15	NO2-N (mgN/L)	0.00		
16	NO3-N (mgN/L)	4.50		
17	o-PO4-P (mg P/L)	0.060		
18	SiO2 (mg/L)	32.7		
19	SO4 (mg/L)	46.1		
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.4		
2	COD (mg/L)	9.3		
3	DO (mg/L)	6.5		
4	DO_SAT% (%)	77		
	TRACE & TOXIC			
1	As (µg/L)	5.3		
2	Cd (µg/L)	0.1		
3	Cr (µg/L)	3.0		
4	Cu (µg/L)	4.9		
5	Ni (µg/L)	8.2		
6	Pb (µg/L)	3.3		
7	Zn (µg/L)	1.9		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	102		
2	HAR_Total (mgCaCO3/L)	273		
3	Na% (%)	38		
4	RSC (-)	1.0		
5	SAR (-)	2.1		
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : KUDLUR (CCK00L9)

Division : SR Division, Coimbatore

Local River : Palar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Analysis

S.No	Parameters	01/03/2018	02/04/2018	23/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	1.443
2	Colour_Cod (-)			Brown
3	EC_FLD (μmho/cm)			657
4	EC_GEN (μmho/cm)			657
5	Odour_Code (-)			odour free
6	pH_FLD (pH units)			8.3
7	pH_GEN (pH units)			8.3
8	TDS (mg/L)			374
9	Temp (deg C)			28.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			61.6
2	ALK-TOT (mgCaCO3/L)			280
3	B (mg/L)			0.03
4	Ca (mg/L)			32
5	Cl (mg/L)			30.9
6	CO3 (mg/L)			74.2
7	F (mg/L)			0.92
8	Fe (mg/L)			0.0
9	HCO3 (mg/L)			191
10	K (mg/L)			6.2
11	Mg (mg/L)			32.1
12	Na (mg/L)			62.8
13	NH3-N (mg N/L)			0.07
14	NO2+NO3 (mg N/L)			1.71
15	NO2-N (mgN/L)			0.17
16	NO3-N (mgN/L)			1.54
17	o-PO4-P (mg P/L)			0.070
18	SiO2 (mg/L)			23.9
19	SO4 (mg/L)			33.8
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			1.2
2	COD (mg/L)			6.3
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			80
2	HAR_Total (mgCaCO3/L)			214
3	Na% (%)			38
4	RSC (-)			1.4
5	SAR (-)			1.9
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : KUDLUR (CCK00L9)

Division : SR Division, Coimbatore

Local River : Palar

Sub-Division : Middle Cauvery SD, Coimbatore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	43.28	0.000	1.248
2	EC_FLD (μmho/cm)	5	788	144	518
3	EC_GEN (μmho/cm)	5	788	144	518
4	pH_FLD (pH units)	5	8.4	8.3	8.4
5	pH_GEN (pH units)	5	8.4	8.3	8.4
6	TDS (mg/L)	5	447	82	293
7	Temp (deg C)	5	28.0	24.0	25.4
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	5	61.6	11.3	40.4
2	ALK-TOT (mgCaCO3/L)	5	320	38	205
3	B (mg/L)	5	0.14	0.03	0.09
4	Ca (mg/L)	5	41	12	29
5	Cl (mg/L)	5	43.1	14.8	27.8
6	CO3 (mg/L)	5	74.2	13.6	48.7
7	F (mg/L)	5	0.93	0.47	0.76
8	Fe (mg/L)	5	0.1	0.0	0
9	HCO3 (mg/L)	5	274	18	151
10	K (mg/L)	5	6.2	3.8	5.4
11	Mg (mg/L)	5	41.0	3.7	24.5
12	Na (mg/L)	5	78.0	11.8	47.7
13	NH3-N (mg N/L)	5	0.18	0.07	0.13
14	NO2+NO3 (mg N/L)	5	4.50	0.63	1.76
15	NO2-N (mgN/L)	5	0.17	0.00	0.03
16	NO3-N (mgN/L)	5	4.50	0.63	1.73
17	o-PO4-P (mg P/L)	5	0.100	0.030	0.07
18	SiO2 (mg/L)	5	32.7	10.4	21.1
19	SO4 (mg/L)	5	46.1	10.5	30.9
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	4	2.3	1.2	1.6
2	COD (mg/L)	5	18.7	6.3	10.8
3	DO (mg/L)	3	6.7	5.5	6.3
4	DO_SAT% (%)	3	83	66	75
	TRACE & TOXIC				
1	As (μg/L)	1	5.3	5.3	5.3
2	Cd (μg/L)	1	0.1	0.1	0.1
3	Cr (μg/L)	1	3.0	3.0	3
4	Cu (μg/L)	1	4.9	4.9	4.9
5	Ni (μg/L)	1	8.2	8.2	8.2
6	Pb (μg/L)	1	3.3	3.3	3.3
7	Zn (μg/L)	1	1.9	1.9	1.9
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	5	102	31	73
2	HAR_Total (mgCaCO3/L)	5	273	46	175
3	Na% (%)	5	38	33	36
4	RSC (-)	5	1.4	0.0	0.7
5	SAR (-)	5	2.1	0.8	1.5
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KUDLUR (CCK00L9)

Division : SR Division, Coimbatore

Local River : Palar

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	0.140	4.140	0.699	1.679	0.419
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)	786	705	653	385	792
4	pH_FLD (pH units)					
5	pH_GEN (pH units)	8.4	8.4	8.1	8.0	8.4
6	TDS (mg/L)					
7	Temp (deg C)	25.0	21.4		26.5	26.6
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	27.8	27.3	0.0	0.0	57.6
2	ALK-TOT (mgCaCO3/L)	333	314	312	217	336
3	B (mg/L)	0.32	0.26	0.30	0.33	
4	Ca (mg/L)	34	34	38	28	29
5	Cl (mg/L)	33.2	30.3	34.4	37.0	71.8
6	CO3 (mg/L)	33.5	32.9	0.0	0.0	69.4
7	F (mg/L)	0.78	1.11	0.85	0.71	1.49
8	Fe (mg/L)	0.1	0.1	0.2	0.1	
9	HCO3 (mg/L)	338	316	380	265	268
10	K (mg/L)	6.2	5.3	5.9	5.7	5.5
11	Mg (mg/L)	38.9	33.1	38.1	24.5	43.4
12	Na (mg/L)	84.1	70.8	59.7	44.7	105.5
13	NH3-N (mg N/L)	0.06	0.10	0.11	0.06	
14	NO2+NO3 (mg N/L)	7.33	3.23			
15	NO2-N (mgN/L)	0.03	0.01			
16	NO3-N (mgN/L)	7.30	3.23	2.38	5.44	2.95
17	o-PO4-P (mg P/L)		0.011	0.067	0.274	
18	P-Tot (mgP/L)	0.028				
19	SiO2 (mg/L)	36.1	35.7	41.2	33.4	
20	SO4 (mg/L)	20.4	22.0	31.7	19.5	40.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.4	1.0	1.4	1.6	1.1
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	84	84	95	69	71
2	HAR_Total (mgCaCO3/L)	246	222	254	171	252
3	Na% (%)	42	40	33	32	47
4	RSC (-)	1.8	1.9	1.2	1.0	1.7
5	SAR (-)	2.3	2.0	1.6	1.4	2.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KUDLUR (CCK00L9)

Division : SR Division, Coimbatore

Local River : Palar

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	0.000	0.000	1.832	0.000	0.179
2	EC_FLD (μmho/cm)			226		
3	EC_GEN (μmho/cm)			226		
4	pH_FLD (pH units)			7.8		
5	pH_GEN (pH units)			7.6		
6	TDS (mg/L)			121		
7	Temp (deg C)			25.5		
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)			0.0		
2	ALK-TOT (mgCaCO3/L)			92		
3	B (mg/L)					
4	Ca (mg/L)			17		
5	Cl (mg/L)			15.9		
6	CO3 (mg/L)			0.0		
7	F (mg/L)			0.48		
8	Fe (mg/L)					
9	HCO3 (mg/L)			112		
10	K (mg/L)			5.5		
11	Mg (mg/L)			11.3		
12	Na (mg/L)			14.7		
13	NH3-N (mg N/L)			0.13		
14	NO2+NO3 (mg N/L)					
15	NO2-N (mgN/L)					
16	NO3-N (mgN/L)			1.03		
17	o-PO4-P (mg P/L)					
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)					
20	SO4 (mg/L)			11.8		
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)			1.6		
2	COD (mg/L)			22.6		
3	DO (mg/L)			6.3		
4	DO_SAT% (%)			77		
	TRACE & TOXIC					
1	As (μg/L)					
2	Cd (μg/L)					
3	Cr (μg/L)					
4	Cu (μg/L)					
5	Ni (μg/L)					
6	Pb (μg/L)					
7	Zn (μg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)			43		
2	HAR_Total (mgCaCO3/L)			90		
3	Na% (%)			25		
4	RSC (-)			0.0		
5	SAR (-)			0.7		
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KUDLUR (CCK00L9)

Division : SR Division, Coimbatore

Local River : Palar

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	1.124	1.004	1.169	0.404	6.533
2	EC_FLD (µmho/cm)	213				
3	EC_GEN (µmho/cm)	213	789	674	810	619
4	pH_FLD (pH units)	8.4				
5	pH_GEN (pH units)	8.4	8.6	8.3	8.3	8.4
6	TDS (mg/L)	121				
7	Temp (deg C)	25.5	21.7	21.3		23.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	24.3	32.2	15.7	12.0	30.9
2	ALK-TOT (mgCaCO3/L)	67	357	314	400	337
3	B (mg/L)	0.08	0.31	0.24	0.76	0.19
4	Ca (mg/L)	18	36	31	43	35
5	Cl (mg/L)	15.8	31.2	35.2	39.2	51.2
6	CO3 (mg/L)	29.2	38.8	19.0	14.4	37.2
7	F (mg/L)	0.53	1.02	1.24	1.34	1.06
8	Fe (mg/L)	0.0	0.1	0.1	0.2	0.0
9	HCO3 (mg/L)	23	357	345	459	336
10	K (mg/L)	4.6	4.8	4.1	5.4	6.3
11	Mg (mg/L)	5.1	42.3	40.1	41.4	44.5
12	Na (mg/L)	18.5	76.1	70.4	86.2	72.6
13	NH3-N (mg N/L)	0.15	0.05		0.05	0.00
14	NO2+NO3 (mg N/L)	0.73	5.10			
15	NO2-N (mgN/L)	0.00	0.03			
16	NO3-N (mgN/L)	0.73	5.07	2.29	4.21	6.05
17	o-PO4-P (mg P/L)	0.060		0.010	0.010	0.259
18	P-Tot (mgP/L)		0.021			
19	SiO2 (mg/L)	13.6	36.5	5.8	53.8	43.2
20	SO4 (mg/L)	17.3	19.7	32.1	53.4	28.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.3	0.8	0.9	0.5	1.3
2	COD (mg/L)	13.1				
3	DO (mg/L)	6.7				
4	DO_SAT% (%)	83				
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	44	91	77	107	87
2	HAR_Total (mgCaCO3/L)	66	267	244	279	272
3	Na% (%)	36	38	38	40	34
4	RSC (-)	0.1	1.8	1.5	2.5	1.3
5	SAR (-)	1.0	2.0	2.0	2.3	1.8
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KUDLUR (CCK00L9)

Division : SR Division, Coimbatore

Local River : Palar

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	1.331	0.350	0.000	1.392	0.513
2	EC_FLD (µmho/cm)				712	590
3	EC_GEN (µmho/cm)	581	535		712	590
4	pH_FLD (pH units)				8.6	7.8
5	pH_GEN (pH units)	8.4	8.5		8.6	8.5
6	TDS (mg/L)				401	339
7	Temp (deg C)	26.3			23.3	23.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	32.7	27.7		29.4	22.9
2	ALK-TOT (mgCaCO3/L)	250	231		290	226
3	B (mg/L)				0.00	0.04
4	Ca (mg/L)	30	40		25	21
5	Cl (mg/L)	51.2	34.4		42.6	34.6
6	CO3 (mg/L)	39.4	33.4		35.4	27.6
7	F (mg/L)	0.95	0.17		0.79	0.97
8	Fe (mg/L)	0.1			0.0	0.0
9	HCO3 (mg/L)	224	214		282	219
10	K (mg/L)	4.6	5.3		5.4	5.4
11	Mg (mg/L)	27.2	24.3		43.3	34.5
12	Na (mg/L)	72.7	42.7		75.4	60.0
13	NH3-N (mg N/L)				0.17	0.09
14	NO2+NO3 (mg N/L)				6.55	10.10
15	NO2-N (mgN/L)				0.00	0.00
16	NO3-N (mgN/L)	1.38	0.71		6.93	10.10
17	o-PO4-P (mg P/L)				0.000	0.200
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)				28.8	5.6
20	SO4 (mg/L)	23.0	21.1		39.7	25.7
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.0	1.6		1.2	1.9
2	COD (mg/L)		15.7		11.2	18.1
3	DO (mg/L)				7.3	7.7
4	DO_SAT% (%)				86	89
	TRACE & TOXIC					
1	As (µg/L)	0.8				
2	Cd (µg/L)	0.2			0.1	
3	Cr (µg/L)	5.8			3.1	
4	Cu (µg/L)	17.8			1.6	
5	Ni (µg/L)	0.3			0.1	
6	Pb (µg/L)	8.7			4.9	
7	Zn (µg/L)	16.0			0.0	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	75	100		61	51
2	HAR_Total (mgCaCO3/L)	189	201		242	195
3	Na% (%)	45	31		39	39
4	RSC (-)	1.3	0.6		1.0	0.7
5	SAR (-)	2.3	1.3		2.1	1.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KUDLUR (CCK00L9)

Division : SR Division, Coimbatore

Local River : Palar

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	No Flow	1.172	1.487	0.000	0.184
2	EC_FLD (µmho/cm)		755			
3	EC_GEN (µmho/cm)		755	490		586
4	pH_FLD (pH units)		8.3			
5	pH_GEN (pH units)		8.3	8.3		8.0
6	TDS (mg/L)		426			
7	Temp (deg C)		24.0	24.0		
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		46.0	17.3		0.0
2	ALK-TOT (mgCaCO3/L)		304	226		180
3	B (mg/L)		0.13	0.27		0.06
4	Ca (mg/L)		39	24		34
5	Cl (mg/L)		38.4	17.8		48.4
6	CO3 (mg/L)		55.4	20.9		0.0
7	F (mg/L)		0.90	0.86		1.00
8	Fe (mg/L)		0.0	0.1		0.4
9	HCO3 (mg/L)		258	233		220
10	K (mg/L)		5.8	4.6		6.4
11	Mg (mg/L)		40.0	24.3		23.3
12	Na (mg/L)		69.4	47.2		63.4
13	NH3-N (mg N/L)		0.15	0.04		0.00
14	NO2+NO3 (mg N/L)		2.82	2.00		
15	NO2-N (mgN/L)		0.00	0.01		
16	NO3-N (mgN/L)		2.82	1.99		3.23
17	o-PO4-P (mg P/L)		0.080			0.000
18	P-Tot (mgP/L)			0.032		
19	SiO2 (mg/L)		27.3	30.1		66.6
20	SO4 (mg/L)		43.1	11.1		50.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		1.4	2.5		1.2
2	COD (mg/L)		10.8			
3	DO (mg/L)		6.0			
4	DO_SAT% (%)		72			
	TRACE & TOXIC					
1	As (µg/L)		5.3			
2	Cd (µg/L)		0.1			
3	Cr (µg/L)		3.0			
4	Cu (µg/L)		4.9			
5	Ni (µg/L)		8.2			
6	Pb (µg/L)		3.3			
7	Zn (µg/L)		1.9			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		97	60		84
2	HAR_Total (mgCaCO3/L)		264	161		181
3	Na% (%)		36	38		42
4	RSC (-)		0.8	1.3		0.0
5	SAR (-)		1.9	1.6		2.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KUDLUR (CCK00L9)

Division : SR Division, Coimbatore

Local River : Palar

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	2.366	No Flow	No Flow	No Flow
2	EC_FLD (µmho/cm)				
3	EC_GEN (µmho/cm)	860			
4	pH_FLD (pH units)				
5	pH_GEN (pH units)	8.7			
6	TDS (mg/L)				
7	Temp (deg C)	24.7			
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	42.5			
2	ALK-TOT (mgCaCO3/L)	432			
3	B (mg/L)	0.02			
4	Ca (mg/L)	37			
5	Cl (mg/L)	68.6			
6	CO3 (mg/L)	51.2			
7	F (mg/L)	1.09			
8	Fe (mg/L)	0.0			
9	HCO3 (mg/L)	423			
10	K (mg/L)	5.3			
11	Mg (mg/L)	53.5			
12	Na (mg/L)	108.2			
13	NH3-N (mg N/L)	0.00			
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)	3.47			
17	o-PO4-P (mg P/L)	0.000			
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	44.8			
20	SO4 (mg/L)	37.1			
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	2.5			
2	COD (mg/L)				
3	DO (mg/L)				
4	DO_SAT% (%)				
	TRACE & TOXIC				
1	As (µg/L)	0.9			
2	Cd (µg/L)	0.0			
3	Cr (µg/L)	5.0			
4	Cu (µg/L)	6.4			
5	Ni (µg/L)				
6	Pb (µg/L)	0.1			
7	Zn (µg/L)	43.0			
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	92			
2	HAR_Total (mgCaCO3/L)	315			
3	Na% (%)	42			
4	RSC (-)	2.4			
5	SAR (-)	2.6			
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : KUDLUR (CCK00L9)

Division : SR Division, Coimbatore

Local River : Palar

River Water

Sub-Division : Middle Cauvery SD, Coimbatore

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	No Flow	No Flow	0.588	0.481
2	EC_FLD (µmho/cm)			299	657
3	EC_GEN (µmho/cm)			312	657
4	pH_FLD (pH units)			7.0	8.3
5	pH_GEN (pH units)			8.0	8.3
6	TDS (mg/L)			177	374
7	Temp (deg C)			26.0	28.0
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)			0.0	61.6
2	ALK-TOT (mgCaCO3/L)			107	280
3	B (mg/L)			0.05	0.03
4	Ca (mg/L)			28	32
5	Cl (mg/L)			18.9	30.9
6	CO3 (mg/L)			0.0	74.2
7	F (mg/L)			0.48	0.92
8	Fe (mg/L)			0.2	0.0
9	HCO3 (mg/L)			130	191
10	K (mg/L)			6.9	6.2
11	Mg (mg/L)			10.4	32.1
12	Na (mg/L)			20.6	62.8
13	NH3-N (mg N/L)			0.31	0.07
14	NO2+NO3 (mg N/L)			4.02	1.71
15	NO2-N (mgN/L)			0.00	0.17
16	NO3-N (mgN/L)			4.02	1.54
17	o-PO4-P (mg P/L)			0.110	0.070
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)			21.5	23.9
20	SO4 (mg/L)			20.8	33.8
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)			1.4	1.2
2	COD (mg/L)			4.0	6.3
3	DO (mg/L)			5.4	
4	DO_SAT% (%)			67	
	TRACE & TOXIC				
1	As (µg/L)			3.0	
2	Cd (µg/L)			0.0	
3	Cr (µg/L)			2.0	
4	Cu (µg/L)			3.0	
5	Ni (µg/L)				
6	Pb (µg/L)			0.0	
7	Zn (µg/L)			24.0	
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)			70	80
2	HAR_Total (mgCaCO3/L)			114	214
3	Na% (%)			27	38
4	RSC (-)			0.0	1.4
5	SAR (-)			0.8	1.9
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: HOGENAKKAL	Code	: CCS00A9
State	: Tamil Nadu	District	Dharmapuri
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Chinnar	Sub Tributary	:
Sub-Sub Tributary	:	Local River	: Chinnar
Division	: Cauvery Division, Bangalore	Sub-Division	: Upper Cauvery SD, Bangalore
Drainage Area	: 1636 Sq. Km.	Bank	: Left
Latitude	: 12°07'16"	Longitude	: 77°46'55"
Zero of Gauge (m)	: 252.000 (m.s.l.)	05/10/1996	
	Opening Date	Closing Date	
Gauge	: 05/10/1996		
Discharge	: 05/10/1996		
Sediment	:		
Water Quality	: 01/11/2004		

Water Quality Datasheet for the period : 2017-2018

Station Name : Hogenakkal (CCS00A9)

Division : Cauvery Division, Bangalore

Local River : Chinnar

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters		01/11/2017	04/12/2017	
			A	A	
	PHYSICAL				
1	Q (cumec)		1.649	0.802	
2	Colour_Cod (-)		Clear		
3	EC_GEN (µmho/cm)		751		
4	Odour_Code (-)		odour free		
5	pH_GEN (pH units)		8.3		
6	TDS (mg/L)		480		
7	Temp (deg C)		27.0		
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)		34.6		
2	ALK-TOT (mgCaCO3/L)		224		
3	B (mg/L)		0.10		
4	Ca (mg/L)		53		
5	Cl (mg/L)		83.4		
6	CO3 (mg/L)		41.7		
7	F (mg/L)		0.86		
8	Fe (mg/L)		0.1		
9	HCO3 (mg/L)		189		
10	K (mg/L)		2.2		
11	Mg (mg/L)		32.1		
12	Na (mg/L)		66.0		
13	NO2+NO3 (mg N/L)		1.77		
14	NO2-N (mgN/L)		0.01		
15	NO3-N (mgN/L)		1.75		
16	o-PO4-P (mg P/L)		0.052		
17	SiO2 (mg/L)		16.5		
18	SO4 (mg/L)		62.4		
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)		0.6		
2	DO (mg/L)		7.5		
3	DO_SAT% (%)		94		
	TRACE & TOXIC				
1	As (µg/L)			2.5	
2	Cd (µg/L)			0.2	
3	Cr (µg/L)			6.6	
4	Cu (µg/L)			3.2	
5	Ni (µg/L)			4.5	
6	Pb (µg/L)			1.9	
7	Zn (µg/L)			3.1	
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)		133		
2	HAR_Total (mgCaCO3/L)		267		
3	Na% (%)		35		
4	RSC (-)		0.0		
5	SAR (-)		1.8		
	PESTICIDES				

SAMPLE NOT RECEIVED FROM JUNE 2017 TO OCTOBER 2017 DUE TO NO FLOW/DRY BED

SAMPLE NOT RECEIVED FROM JANUARY 2018 TO MAY 2018 DUE TO NO FLOW/DRY BED

Water Quality Summary for the period : 2017-2018

Station Name : Hogenakkal (CCS00A9)

Division : Cauvery Division, Bangalore

Local River : Chinnar

Sub-Division : Upper Cauvery SD, Bangalore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	56.79	0.000	0.791
2	EC_GEN (µmho/cm)	1	751	751	751
3	pH_GEN (pH units)	1	8.3	8.3	8.3
4	TDS (mg/L)	1	480	480	480
5	Temp (deg C)	1	27.0	27.0	27
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	1	34.6	34.6	34.6
2	ALK-TOT (mgCaCO3/L)	1	224	224	224
3	B (mg/L)	1	0.10	0.10	0.1
4	Ca (mg/L)	1	53	53	53
5	Cl (mg/L)	1	83.4	83.4	83.4
6	CO3 (mg/L)	1	41.7	41.7	41.7
7	F (mg/L)	1	0.86	0.86	0.86
8	Fe (mg/L)	1	0.1	0.1	0.1
9	HCO3 (mg/L)	1	189	189	189
10	K (mg/L)	1	2.2	2.2	2.2
11	Mg (mg/L)	1	32.1	32.1	32.1
12	Na (mg/L)	1	66.0	66.0	66
13	NO2+NO3 (mg N/L)	1	1.77	1.77	1.77
14	NO2-N (mgN/L)	1	0.01	0.01	0.01
15	NO3-N (mgN/L)	1	1.75	1.75	1.75
16	o-PO4-P (mg P/L)	1	0.052	0.052	0.052
17	SiO2 (mg/L)	1	16.5	16.5	16.5
18	SO4 (mg/L)	1	62.4	62.4	62.4
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1	0.6	0.6	0.6
2	DO (mg/L)	1	7.5	7.5	7.5
3	DO_SAT% (%)	1	94	94	94
	TRACE & TOXIC				
1	As (µg/L)	1	2.5	2.5	2.5
2	Cd (µg/L)	1	0.2	0.2	0.2
3	Cr (µg/L)	1	6.6	6.6	6.6
4	Cu (µg/L)	1	3.2	3.2	3.2
5	Ni (µg/L)	1	4.5	4.5	4.5
6	Pb (µg/L)	1	1.9	1.9	1.9
7	Zn (µg/L)	1	3.1	3.1	3.1
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	1	133	133	133
2	HAR_Total (mgCaCO3/L)	1	267	267	267
3	Na% (%)	1	35	35	35
4	RSC (-)	1	0.0	0.0	0
5	SAR (-)	1	1.8	1.8	1.8
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Hogenakkal (CCS00A9)

Division : Cauvery Division, Bangalore

Local River : Chinnar

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	Dry Bed	Dry Bed
2	EC_GEN (µmho/cm)					
3	pH_GEN (pH units)					
4	TDS (mg/L)					
5	Temp (deg C)					
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)					
2	ALK-TOT (mgCaCO3/L)					
3	B (mg/L)					
4	Ca (mg/L)					
5	Cl (mg/L)					
6	CO3 (mg/L)					
7	F (mg/L)					
8	Fe (mg/L)					
9	HCO3 (mg/L)					
10	K (mg/L)					
11	Mg (mg/L)					
12	Na (mg/L)					
13	NO2+NO3 (mg N/L)					
14	NO2-N (mgN/L)					
15	NO3-N (mgN/L)					
16	o-PO4-P (mg P/L)					
17	SiO2 (mg/L)					
18	SO4 (mg/L)					
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	DO (mg/L)					
3	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)					
2	HAR_Total (mgCaCO3/L)					
3	Na% (%)					
4	RSC (-)					
5	SAR (-)					
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Hogenakkal (CCS00A9)

Division : Cauvery Division, Bangalore

Local River : Chinnar

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	Dry Bed	Dry Bed
2	EC_GEN (µmho/cm)					
3	pH_GEN (pH units)					
4	TDS (mg/L)					
5	Temp (deg C)					
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)					
2	ALK-TOT (mgCaCO3/L)					
3	B (mg/L)					
4	Ca (mg/L)					
5	Cl (mg/L)					
6	CO3 (mg/L)					
7	F (mg/L)					
8	Fe (mg/L)					
9	HCO3 (mg/L)					
10	K (mg/L)					
11	Mg (mg/L)					
12	Na (mg/L)					
13	NO2+NO3 (mg N/L)					
14	NO2-N (mgN/L)					
15	NO3-N (mgN/L)					
16	o-PO4-P (mg P/L)					
17	SiO2 (mg/L)					
18	SO4 (mg/L)					
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	DO (mg/L)					
3	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)					
2	HAR_Total (mgCaCO3/L)					
3	Na% (%)					
4	RSC (-)					
5	SAR (-)					
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Hogenakkal (CCS00A9)

Division : Cauvery Division, Bangalore

Local River : Chinnar

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	Dry Bed	Dry Bed
2	EC_GEN (µmho/cm)					
3	pH_GEN (pH units)					
4	TDS (mg/L)					
5	Temp (deg C)					
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)					
2	ALK-TOT (mgCaCO3/L)					
3	B (mg/L)					
4	Ca (mg/L)					
5	Cl (mg/L)					
6	CO3 (mg/L)					
7	F (mg/L)					
8	Fe (mg/L)					
9	HCO3 (mg/L)					
10	K (mg/L)					
11	Mg (mg/L)					
12	Na (mg/L)					
13	NO2+NO3 (mg N/L)					
14	NO2-N (mgN/L)					
15	NO3-N (mgN/L)					
16	o-PO4-P (mg P/L)					
17	SiO2 (mg/L)					
18	SO4 (mg/L)					
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	DO (mg/L)					
3	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)					
2	HAR_Total (mgCaCO3/L)					
3	Na% (%)					
4	RSC (-)					
5	SAR (-)					
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Hogenakkal (CCS00A9)

Division : Cauvery Division, Bangalore

Local River : Chinnar

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	Dry Bed	Dry Bed
2	EC_GEN (µmho/cm)					
3	pH_GEN (pH units)					
4	TDS (mg/L)					
5	Temp (deg C)					
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)					
2	ALK-TOT (mgCaCO3/L)					
3	B (mg/L)					
4	Ca (mg/L)					
5	Cl (mg/L)					
6	CO3 (mg/L)					
7	F (mg/L)					
8	Fe (mg/L)					
9	HCO3 (mg/L)					
10	K (mg/L)					
11	Mg (mg/L)					
12	Na (mg/L)					
13	NO2+NO3 (mg N/L)					
14	NO2-N (mgN/L)					
15	NO3-N (mgN/L)					
16	o-PO4-P (mg P/L)					
17	SiO2 (mg/L)					
18	SO4 (mg/L)					
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	DO (mg/L)					
3	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)					
2	HAR_Total (mgCaCO3/L)					
3	Na% (%)					
4	RSC (-)					
5	SAR (-)					
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Hogenakkal (CCS00A9)

Division : Cauvery Division, Bangalore

Local River : Chinnar

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	Dry Bed	1.226	Dry Bed	Dry Bed	Dry Bed
2	EC_GEN (µmho/cm)		751			
3	pH_GEN (pH units)		8.3			
4	TDS (mg/L)		480			
5	Temp (deg C)		27.0			
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		34.6			
2	ALK-TOT (mgCaCO3/L)		224			
3	B (mg/L)		0.10			
4	Ca (mg/L)		53			
5	Cl (mg/L)		83.4			
6	CO3 (mg/L)		41.7			
7	F (mg/L)		0.86			
8	Fe (mg/L)		0.1			
9	HCO3 (mg/L)		189			
10	K (mg/L)		2.2			
11	Mg (mg/L)		32.1			
12	Na (mg/L)		66.0			
13	NO2+NO3 (mg N/L)		1.77			
14	NO2-N (mgN/L)		0.01			
15	NO3-N (mgN/L)		1.75			
16	o-PO4-P (mg P/L)		0.052			
17	SiO2 (mg/L)		16.5			
18	SO4 (mg/L)		62.4			
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		0.6			
2	DO (mg/L)		7.5			
3	DO_SAT% (%)		94			
	TRACE & TOXIC					
1	As (µg/L)		2.5			
2	Cd (µg/L)		0.2			
3	Cr (µg/L)		6.6			
4	Cu (µg/L)		3.2			
5	Ni (µg/L)		4.5			
6	Pb (µg/L)		1.9			
7	Zn (µg/L)		3.1			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		133			
2	HAR_Total (mgCaCO3/L)		267			
3	Na% (%)		35			
4	RSC (-)		0.0			
5	SAR (-)		1.8			
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Hogenakkal (CCS00A9)

Division : Cauvery Division, Bangalore

Local River : Chinnar

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	Dry Bed
2	EC_GEN (µmho/cm)				
3	pH_GEN (pH units)				
4	TDS (mg/L)				
5	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	B (mg/L)				
4	Ca (mg/L)				
5	Cl (mg/L)				
6	CO3 (mg/L)				
7	F (mg/L)				
8	Fe (mg/L)				
9	HCO3 (mg/L)				
10	K (mg/L)				
11	Mg (mg/L)				
12	Na (mg/L)				
13	NO2+NO3 (mg N/L)				
14	NO2-N (mgN/L)				
15	NO3-N (mgN/L)				
16	o-PO4-P (mg P/L)				
17	SiO2 (mg/L)				
18	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
2	DO (mg/L)				
3	DO_SAT% (%)				
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Hogenakkal (CCS00A9)

Division : Cauvery Division, Bangalore

Local River : Chinnar

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed	Dry Bed
2	EC_GEN (µmho/cm)				
3	pH_GEN (pH units)				
4	TDS (mg/L)				
5	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	B (mg/L)				
4	Ca (mg/L)				
5	Cl (mg/L)				
6	CO3 (mg/L)				
7	F (mg/L)				
8	Fe (mg/L)				
9	HCO3 (mg/L)				
10	K (mg/L)				
11	Mg (mg/L)				
12	Na (mg/L)				
13	NO2+NO3 (mg N/L)				
14	NO2-N (mgN/L)				
15	NO3-N (mgN/L)				
16	o-PO4-P (mg P/L)				
17	SiO2 (mg/L)				
18	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
2	DO (mg/L)				
3	DO_SAT% (%)				
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: BILIGUNDULU	Code	: CC000N7
State	: Tamil Nadu	District	Dharmapuri
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: -	Sub Tributary	:
Sub-Sub Tributary	:	Local River	: Cauvery
Division	: Cauvery Division, Bangalore	Sub-Division	: Upper Cauvery SD, Bangalore
Drainage Area	: 36682 Sq. Km.	Bank	: Left
Latitude	: 12°10'56"	Longitude	: 77°43'26"
Zero of Gauge (m)	: 255.000 (m.s.l)	01/07/1971	
	Opening Date	Closing Date	
Gauge	: 01/07/1971		
Discharge	: 30/08/1971		
Sediment	: 01/06/1972		
Water Quality	: 01/06/1978		

Water Quality Datasheet for the period : 2017-2018

Station Name : Biligundulu (CC000N7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	01/06/2017	03/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	34.48	3.685	206.9
2	Colour_Cod (-)	clear	Clear	Other
3	EC_GEN (µmho/cm)	396	945	163
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.9	8.5	7.9
6	TDS (mg/L)	236	556	122
7	Temp (deg C)	28.0	28.0	27.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	39.6	0.0
2	ALK-TOT (mgCaCO3/L)	131	238	56
3	B (mg/L)	0.61	0.24	0.12
4	Ca (mg/L)	28	50	19
5	Cl (mg/L)	38.0	134.9	12.4
6	CO3 (mg/L)	0.0	47.7	0.0
7	F (mg/L)	0.29	0.76	0.11
8	Fe (mg/L)	0.3	0.0	0.3
9	HCO3 (mg/L)	160	194	68
10	K (mg/L)	3.7	9.7	2.2
11	Mg (mg/L)	12.0	29.0	3.8
12	Na (mg/L)	35.0	100.1	7.0
13	NO2+NO3 (mg N/L)	0.87	3.42	1.74
14	NO2-N (mgN/L)	0.06	0.11	0.01
15	NO3-N (mgN/L)	0.81	3.31	1.72
16	o-PO4-P (mg P/L)	0.052	0.362	0.114
17	SiO2 (mg/L)	16.8	35.5	10.3
18	SO4 (mg/L)	23.2	26.0	7.4
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	2.0	0.9	1.5
2	COD (mg/L)			
3	DO (mg/L)	5.7	6.6	6.5
4	DO_SAT% (%)	73	85	82
	TRACE & TOXIC			
1	As (µg/L)			2.0
2	Cd (µg/L)			0.0
3	Cr (µg/L)			12.0
4	Cu (µg/L)			3.0
5	Ni (µg/L)			
6	Pb (µg/L)			2.0
7	Zn (µg/L)			8.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	69	126	47
2	HAR_Total (mgCaCO3/L)	119	247	63
3	Na% (%)	38	46	19
4	RSC (-)	0.3	0.0	0.0
5	SAR (-)	1.4	2.8	0.4
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Biligundulu (CC000N7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	04/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	418.3	358.6	104.8
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (µmho/cm)	397	459	532
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	8.0	8.0	8.4
6	TDS (mg/L)	260	278	318
7	Temp (deg C)	28.0	28.0	27.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	23.2
2	ALK-TOT (mgCaCO3/L)	127	146	221
3	B (mg/L)	0.11	0.40	0.06
4	Ca (mg/L)	21	40	43
5	Cl (mg/L)	54.7	48.3	22.4
6	CO3 (mg/L)	0.0	0.0	27.9
7	F (mg/L)	0.25	0.29	0.53
8	Fe (mg/L)	0.2	0.2	0.0
9	HCO3 (mg/L)	155	178	213
10	K (mg/L)	5.8	6.1	3.0
11	Mg (mg/L)	12.3	10.9	31.2
12	Na (mg/L)	40.0	38.0	12.0
13	NO2+NO3 (mg N/L)	1.06	1.01	1.08
14	NO2-N (mgN/L)	0.04	0.04	0.01
15	NO3-N (mgN/L)	1.02	0.97	1.06
16	o-PO4-P (mg P/L)	0.000	0.207	0.052
17	SiO2 (mg/L)	1.5	15.0	28.1
18	SO4 (mg/L)	10.2	13.6	19.0
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	2.6	2.0	0.8
2	COD (mg/L)			
3	DO (mg/L)	6.0	5.4	6.9
4	DO_SAT% (%)	77	69	87
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	54	101	107
2	HAR_Total (mgCaCO3/L)	105	147	237
3	Na% (%)	44	35	10
4	RSC (-)	0.5	0.0	0.0
5	SAR (-)	1.7	1.4	0.3
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Biligundulu (CC000N7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	04/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	201.1	48.56	11.6
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (μmho/cm)	460	484	490
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	8.0	8.5	8.4
6	TDS (mg/L)	274	282	286
7	Temp (deg C)	27.0	27.0	27.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	26.9	15.4
2	ALK-TOT (mgCaCO3/L)	168	193	175
3	B (mg/L)	0.00	0.00	0.13
4	Ca (mg/L)	33	33	26
5	Cl (mg/L)	49.3	24.5	54.7
6	CO3 (mg/L)	0.0	32.4	18.6
7	F (mg/L)	0.59	0.34	0.42
8	Fe (mg/L)	0.1	0.0	0.0
9	HCO3 (mg/L)	205	170	176
10	K (mg/L)	2.2	2.5	2.3
11	Mg (mg/L)	19.2	34.5	26.6
12	Na (mg/L)	38.0	12.0	41.0
13	NO2+NO3 (mg N/L)	0.91	0.83	0.99
14	NO2-N (mgN/L)	0.01	0.01	0.01
15	NO3-N (mgN/L)	0.90	0.81	0.98
16	o-PO4-P (mg P/L)	0.000	0.010	0.052
17	SiO2 (mg/L)	5.5	12.9	20.1
18	SO4 (mg/L)	10.2	9.6	13.5
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.7	1.1	1.0
2	COD (mg/L)			
3	DO (mg/L)	7.2	7.0	7.0
4	DO_SAT% (%)	90	88	88
	TRACE & TOXIC			
1	As (μg/L)	2.8		
2	Cd (μg/L)	0.1		
3	Cr (μg/L)	15.7		
4	Cu (μg/L)	12.5		
5	Ni (μg/L)	13.0		
6	Pb (μg/L)	4.0		
7	Zn (μg/L)	4.6		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	83	82	66
2	HAR_Total (mgCaCO3/L)	163	226	177
3	Na% (%)	33	10	33
4	RSC (-)	0.1	0.0	0.0
5	SAR (-)	1.3	0.3	1.3
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Biligundulu (CC000N7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	19.72	17.52	13.04
2	Colour_Cod (-)	Clear	Clear	Light Brown
3	EC_GEN ($\mu\text{mho/cm}$)	538	546	504
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	8.2	8.2	8.5
6	TDS (mg/L)	342	374	287
7	Temp (deg C)	27.0	27.0	28.0
	CHEMICAL			
1	Alk-Phen (mgCaCO ₃ /L)	0.0	0.0	28.7
2	ALK-TOT (mgCaCO ₃ /L)	178	175	173
3	B (mg/L)	0.00	0.03	0.00
4	Ca (mg/L)	29	32	32
5	Cl (mg/L)	71.7	75.3	63.7
6	CO ₃ (mg/L)	0.0	0.0	34.6
7	F (mg/L)	0.32	0.59	0.40
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO ₃ (mg/L)	217	214	141
10	K (mg/L)	3.3	4.0	3.3
11	Mg (mg/L)	25.0	23.2	21.4
12	Na (mg/L)	47.0	53.0	47.2
13	NO ₂ +NO ₃ (mg N/L)	0.99	0.99	0.08
14	NO ₂ -N (mgN/L)	0.00	0.01	0.00
15	NO ₃ -N (mgN/L)	0.99	0.98	0.08
16	o-PO ₄ -P (mg P/L)	0.155	0.041	0.020
17	SiO ₂ (mg/L)	19.1	15.0	18.2
18	SO ₄ (mg/L)	15.0	13.2	14.4
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD ₃₋₂₇ (mg/L)	1.2	1.0	1.2
2	COD (mg/L)		13.0	8.4
3	DO (mg/L)	6.2	6.4	5.7
4	DO_SAT% (%)	78	80	73
	TRACE & TOXIC			
1	As ($\mu\text{g/L}$)		0.8	
2	Cd ($\mu\text{g/L}$)		0.0	
3	Cr ($\mu\text{g/L}$)		0.1	
4	Cu ($\mu\text{g/L}$)		0.6	
5	Ni ($\mu\text{g/L}$)		1.0	
6	Pb ($\mu\text{g/L}$)		0.6	
7	Zn ($\mu\text{g/L}$)		1.5	
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO ₃ /L)	72	79	80
2	HAR_Total (mgCaCO ₃ /L)	176	176	169
3	Na% (%)	36	39	37
4	RSC (-)	0.1	0.0	0.1
5	SAR (-)	1.5	1.7	1.6
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : Biligundulu (CC000N7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

Sub-Division : Upper Cauvery SD, Bangalore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	1333	3.379	111.7
2	EC_GEN (µmho/cm)	12	945	163	493
3	pH_GEN (pH units)	12	8.5	7.9	8.2
4	TDS (mg/L)	12	556	122	301
5	Temp (deg C)	12	28.0	27.0	27.4
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	12	39.6	0.0	11.2
2	ALK-TOT (mgCaCO3/L)	12	238	56	165
3	B (mg/L)	12	0.61	0.00	0.14
4	Ca (mg/L)	12	50	19	32
5	Cl (mg/L)	12	134.9	12.4	54.1
6	CO3 (mg/L)	12	47.7	0.0	13.4
7	F (mg/L)	12	0.76	0.11	0.41
8	Fe (mg/L)	12	0.3	0.0	0.1
9	HCO3 (mg/L)	12	217	68	174
10	K (mg/L)	12	9.7	2.2	4
11	Mg (mg/L)	12	34.5	3.8	20.8
12	Na (mg/L)	12	100.1	7.0	39.2
13	NO2+NO3 (mg N/L)	12	3.42	0.08	1.16
14	NO2-N (mgN/L)	12	0.11	0.00	0.03
15	NO3-N (mgN/L)	12	3.31	0.08	1.14
16	o-PO4-P (mg P/L)	12	0.362	0.000	0.089
17	SiO2 (mg/L)	12	35.5	1.5	16.5
18	SO4 (mg/L)	12	26.0	7.4	14.6
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	12	2.6	0.8	1.4
2	COD (mg/L)	2	13.0	8.4	10.7
3	DO (mg/L)	12	7.2	5.4	6.4
4	DO_SAT% (%)	12	90	69	81
	TRACE & TOXIC				
1	As (µg/L)	3	2.8	0.8	1.9
2	Cd (µg/L)	3	0.1	0.0	0
3	Cr (µg/L)	3	15.7	0.1	9.3
4	Cu (µg/L)	3	12.5	0.6	5.4
5	Ni (µg/L)	2	13.0	1.0	7
6	Pb (µg/L)	3	4.0	0.6	2.2
7	Zn (µg/L)	3	8.0	1.5	4.7
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	12	126	47	80
2	HAR_Total (mgCaCO3/L)	12	247	63	167
3	Na% (%)	12	46	10	32
4	RSC (-)	12	0.5	0.0	0.1
5	SAR (-)	12	2.8	0.3	1.3
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Biligundulu (CC000N7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	482.8	385.0	238.0	273.0	364.0
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)	350	354	383	335	338
4	pH_FLD (pH units)					
5	pH_GEN (pH units)	8.1	8.2	8.3	8.1	7.9
6	TDS (mg/L)					
7	Temp (deg C)	26.9	26.5	25.7	25.7	27.7
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	5.8	7.7	0.0
2	ALK-TOT (mgCaCO3/L)	77	119	135	160	133
3	B (mg/L)	0.00	0.31	0.05	0.04	0.00
4	Ca (mg/L)	18	24	28	27	27
5	Cl (mg/L)	57.2	33.1	32.8	25.0	25.6
6	CO3 (mg/L)	0.0	0.0	7.0	7.4	0.0
7	F (mg/L)	0.24	0.32	0.33	1.77	0.48
8	Fe (mg/L)	0.2	0.1	0.1	0.0	0.0
9	HCO3 (mg/L)	94	145	151	155	156
10	K (mg/L)	13.4	4.0	3.7	2.4	2.5
11	Mg (mg/L)	7.9	12.5	13.8	13.8	11.9
12	Na (mg/L)	38.9	26.7	33.9	26.4	25.4
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	1.02	1.77	1.60	1.05	1.50
15	NO2-N (mgN/L)	0.01	0.14	0.04	0.02	0.01
16	NO3-N (mgN/L)	1.01	1.64	1.56	0.99	1.49
17	o-PO4-P (mg P/L)	0.025	0.019	0.184	0.054	0.072
18	P-Tot (mgP/L)		0.019			
19	SiO2 (mg/L)	15.8	16.9	16.9	15.8	15.3
20	SO4 (mg/L)	16.3	7.3	7.9	6.2	5.5
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.3	0.7	1.1		1.8
2	COD (mg/L)					
3	DO (mg/L)	5.5	6.0	6.8	6.4	6.8
4	DO_SAT% (%)	69	75	83	78	86
	TRACE & TOXIC					
1	Ag (µg/L)					
2	As (µg/L)					
3	Cd (µg/L)					
4	Cr (µg/L)					
5	Cu (µg/L)					
6	Hg (µg/L)					
7	Mn (mg/L)					
8	Ni (µg/L)					
9	Pb (µg/L)					
10	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	46	61	70	66	66
2	HAR_Total (mgCaCO3/L)	79	113	128	124	116
3	Na% (%)	48	31	32	31	32
4	RSC (-)	0.0	0.1	0.2	0.3	0.3
5	SAR (-)	2.0	1.1	1.2	1.0	1.0
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Biligundulu (CC000N7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	118.2	453.5	273.0	286.0	132.9
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)	370	274	282	293	394
4	pH_FLD (pH units)					
5	pH_GEN (pH units)	8.2	7.7	8.0	7.9	7.7
6	TDS (mg/L)					227
7	Temp (deg C)	27.4	26.3	28.6	28.0	28.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	5.0	0.0	2.8	0.0	3.3
2	ALK-TOT (mgCaCO3/L)	145	74	98	102	141
3	B (mg/L)		0.03	0.13	0.71	0.13
4	Ca (mg/L)	28	24	23	22	34
5	Cl (mg/L)	30.0	27.4	29.0	27.0	37.7
6	CO3 (mg/L)	6.0	0.0	3.4	0.0	4.0
7	F (mg/L)	0.35	0.18	0.30	1.03	
8	Fe (mg/L)		0.2	0.1	0.1	0.3
9	HCO3 (mg/L)	164	110	112	125	164
10	K (mg/L)	1.9	1.9	3.4	2.4	3.4
11	Mg (mg/L)	14.1	7.6	11.1	11.5	12.0
12	Na (mg/L)	27.9	21.7	19.0	19.1	35.5
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	1.20	1.55	1.40	0.88	1.80
15	NO2-N (mgN/L)	0.02	0.03	0.06	0.03	0.01
16	NO3-N (mgN/L)	1.17	1.52	1.34	0.85	1.79
17	o-PO4-P (mg P/L)		0.052	0.043	0.229	0.153
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)		14.3	11.4	18.7	20.6
20	SO4 (mg/L)	7.3	12.8	8.6	8.0	7.8
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.6	1.0	1.6	1.0	1.3
2	COD (mg/L)					
3	DO (mg/L)	6.4	6.8	6.1	6.3	6.1
4	DO_SAT% (%)	81	84	79	81	78
	TRACE & TOXIC					
1	Ag (µg/L)	3.0				
2	As (µg/L)	2.9	3.0			
3	Cd (µg/L)		0.1			
4	Cr (µg/L)		0.9			
5	Cu (µg/L)	9.3	0.5			
6	Hg (µg/L)					
7	Mn (mg/L)					
8	Ni (µg/L)	2.1	7.6			
9	Pb (µg/L)		7.2			
10	Zn (µg/L)		0.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	71	60	58	56	84
2	HAR_Total (mgCaCO3/L)	130	92	105	104	134
3	Na% (%)	32	29	28	26	35
4	RSC (-)	0.3	0.1	0.1	0.1	0.4
5	SAR (-)	1.1	0.9	0.8	0.8	1.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Biligundulu (CC000N7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	204.39	151.6	182.6	117.8	198.0
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)	472	451	438	406	465
4	pH_FLD (pH units)					
5	pH_GEN (pH units)	8.1	8.0	8.3	8.3	8.4
6	TDS (mg/L)	290				
7	Temp (deg C)	27.8	25.4	23.7	23.5	24.9
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	7.9	0.0	3.9	13.5	18.2
2	ALK-TOT (mgCaCO3/L)	140	127	197	177	188
3	B (mg/L)	0.30	0.00	0.15	0.08	0.07
4	Ca (mg/L)	32	27	34	33	34
5	Cl (mg/L)	57.7	64.7	25.5	24.8	26.3
6	CO3 (mg/L)	9.5	0.0	4.7	16.3	21.9
7	F (mg/L)	0.34	0.02	0.36	2.21	0.38
8	Fe (mg/L)	0.2	0.3	0.1	0.1	0.0
9	HCO3 (mg/L)	151	155	231	183	185
10	K (mg/L)	5.5	6.3	2.0	1.8	2.0
11	Mg (mg/L)	13.6	15.7	17.5	16.3	18.2
12	Na (mg/L)	44.0	44.4	32.4	32.1	33.2
13	NH3-N (mg N/L)					0.00
14	NO2+NO3 (mg N/L)	1.62	0.42	0.58	0.55	0.93
15	NO2-N (mgN/L)	0.05	0.00	0.01	0.01	0.04
16	NO3-N (mgN/L)	1.57	0.42	0.57	0.54	0.89
17	o-PO4-P (mg P/L)	0.147	0.028	0.049	0.028	0.036
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)	15.8	12.1	20.3	20.3	19.1
20	SO4 (mg/L)	16.1	0.2	7.4	6.3	7.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.8	1.0	1.7	0.7	1.0
2	COD (mg/L)					
3	DO (mg/L)	6.0	6.2	7.1	7.1	7.3
4	DO_SAT% (%)	77	75	83	83	87
	TRACE & TOXIC					
1	Ag (µg/L)					
2	As (µg/L)	2.0				
3	Cd (µg/L)	0.0				
4	Cr (µg/L)	12.0				
5	Cu (µg/L)	3.0				
6	Hg (µg/L)					
7	Mn (mg/L)					
8	Ni (µg/L)					
9	Pb (µg/L)	2.0				
10	Zn (µg/L)	8.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	79	68	86	83	85
2	HAR_Total (mgCaCO3/L)	136	133	159	151	161
3	Na% (%)	36	41	31	31	31
4	RSC (-)	0.1	0.1	0.8	0.5	0.6
5	SAR (-)	1.5	1.7	1.1	1.1	1.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Biligundulu (CC000N7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	177.3	151.0	104.4	100.5	104.6
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)	428	473	459	475	542
4	pH_FLD (pH units)					
5	pH_GEN (pH units)	7.9	8.3	8.3	8.3	8.3
6	TDS (mg/L)					276
7	Temp (deg C)	26.5	24.9	25.5	27.5	28.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	4.0	3.2	3.4	3.9
2	ALK-TOT (mgCaCO3/L)	184	195	194	200	220
3	B (mg/L)	0.04		0.04	0.24	0.30
4	Ca (mg/L)	34	40	32	43	40
5	Cl (mg/L)	27.5	29.0	28.0	28.8	42.3
6	CO3 (mg/L)	0.0	4.8	3.8	4.1	4.7
7	F (mg/L)		0.48	0.44	0.43	0.49
8	Fe (mg/L)	0.3		0.0	0.1	0.1
9	HCO3 (mg/L)	225	228	229	236	259
10	K (mg/L)	2.1	2.3	6.3	5.5	2.5
11	Mg (mg/L)	18.0	16.0	14.3	16.5	21.1
12	Na (mg/L)	30.5	35.3	44.5	30.8	44.0
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	1.24	1.40	1.51	1.38	1.13
15	NO2-N (mgN/L)	0.01	0.01	0.01	0.01	0.01
16	NO3-N (mgN/L)	1.24	1.39	1.50	1.37	1.13
17	o-PO4-P (mg P/L)	0.052		0.101	0.018	0.240
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)	17.3		21.6	13.2	23.0
20	SO4 (mg/L)	6.7	7.4	8.3	11.1	10.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.6	0.8	1.0	1.0	1.8
2	COD (mg/L)					
3	DO (mg/L)	7.1	7.0	6.7	7.0	7.3
4	DO_SAT% (%)	88	84	82	88	94
	TRACE & TOXIC					
1	Ag (µg/L)					
2	As (µg/L)	0.5	0.0			0.5
3	Cd (µg/L)	0.3	0.0		0.1	0.0
4	Cr (µg/L)	2.8	0.4		2.6	0.0
5	Cu (µg/L)	30.4	0.1		7.5	0.1
6	Hg (µg/L)					
7	Mn (mg/L)					
8	Ni (µg/L)	1.9	7.8		3.6	0.3
9	Pb (µg/L)	0.4			6.2	2.6
10	Zn (µg/L)				16.8	0.4
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	85	101	79	107	100
2	HAR_Total (mgCaCO3/L)	160	168	139	176	188
3	Na% (%)	29	31	39	26	33
4	RSC (-)	0.5	0.6	1.1	0.5	0.7
5	SAR (-)	1.1	1.2	1.7	1.0	1.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Biligundulu (CC000N7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	28.26	91.52	94.32	44.45	71.35
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)	553	492	425	480	438
4	pH_FLD (pH units)					
5	pH_GEN (pH units)	8.5	8.3	8.2	8.4	8.3
6	TDS (mg/L)	306	290			
7	Temp (deg C)	27.5	27.0	26.8	26.3	26.8
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	29.7	16.4	0.0	12.9	6.5
2	ALK-TOT (mgCaCO3/L)	179	189	123	192	181
3	B (mg/L)	0.27	0.05	0.00	0.10	0.12
4	Ca (mg/L)	31	34	29	32	32
5	Cl (mg/L)	59.7	37.7	58.7	34.4	30.2
6	CO3 (mg/L)	35.8	19.7	0.0	15.5	7.8
7	F (mg/L)		0.47	0.05	0.35	0.43
8	Fe (mg/L)	0.1	0.0	0.1	0.1	0.1
9	HCO3 (mg/L)	146	191	151	202	205
10	K (mg/L)	3.0	2.5	1.5	3.1	2.4
11	Mg (mg/L)	20.5	27.9	16.2	19.8	18.8
12	Na (mg/L)	52.0	25.8	38.2	43.9	35.9
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	0.99	0.95	0.12	0.58	0.48
15	NO2-N (mgN/L)	0.01	0.01	0.00	0.00	0.00
16	NO3-N (mgN/L)	0.98	0.94	0.12	0.57	0.48
17	o-PO4-P (mg P/L)	0.049	0.028	0.062	0.052	0.021
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)	17.9	16.7	20.0	20.6	19.6
20	SO4 (mg/L)	17.1	13.1	1.1	5.8	7.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.0	1.2	1.6	1.4	1.5
2	COD (mg/L)					
3	DO (mg/L)	5.9	7.0	6.8	6.2	6.4
4	DO_SAT% (%)	75	88	85	76	80
	TRACE & TOXIC					
1	Ag (µg/L)					
2	As (µg/L)	0.6	2.8	12.9		
3	Cd (µg/L)	0.3	0.1	1.0		
4	Cr (µg/L)	0.3	15.7			
5	Cu (µg/L)	1.3	12.5	4.0	4.7	
6	Hg (µg/L)					
7	Mn (mg/L)					
8	Ni (µg/L)	3.1	13.0		1.1	
9	Pb (µg/L)	1.3	4.0	1.5		
10	Zn (µg/L)	0.3	4.6	64.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	78	85	72	80	80
2	HAR_Total (mgCaCO3/L)	163	201	139	162	158
3	Na% (%)	40	22	36	36	33
4	RSC (-)	0.4	0.0	0.0	0.6	0.5
5	SAR (-)	1.8	0.8	1.5	1.5	1.2
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Biligundulu (CC000N7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	68.96	66.63	21.81	33.12
2	EC_FLD (µmho/cm)				
3	EC_GEN (µmho/cm)	533	438	435	455
4	pH_FLD (pH units)				
5	pH_GEN (pH units)	8.3	8.1	8.2	8.2
6	TDS (mg/L)				
7	Temp (deg C)	27.8	27.7	26.0	28.3
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	11.5	0.0	4.1	0.0
2	ALK-TOT (mgCaCO3/L)	195	180	164	185
3	B (mg/L)	0.10		0.00	0.09
4	Ca (mg/L)	35	32	28	37
5	Cl (mg/L)	37.2	32.9	38.0	32.8
6	CO3 (mg/L)	13.8	0.0	4.9	0.0
7	F (mg/L)	0.63	0.41		0.55
8	Fe (mg/L)	0.0		0.0	0.0
9	HCO3 (mg/L)	210	220	190	225
10	K (mg/L)	4.2	2.4	2.9	2.6
11	Mg (mg/L)	19.8	18.0	17.2	16.2
12	Na (mg/L)	41.7	31.0	34.6	35.6
13	NH3-N (mg N/L)				
14	NO2+NO3 (mg N/L)	1.35	1.37	1.18	1.31
15	NO2-N (mgN/L)	0.12	0.01	0.00	0.03
16	NO3-N (mgN/L)	1.08	1.35	1.18	1.28
17	o-PO4-P (mg P/L)	0.114		0.031	0.041
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	20.5		19.3	15.1
20	SO4 (mg/L)	10.3	7.3	9.0	8.6
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)		0.4	1.1	0.8
2	COD (mg/L)				
3	DO (mg/L)	6.2	5.7	6.4	4.9
4	DO_SAT% (%)	79	72	80	63
	TRACE & TOXIC				
1	Ag (µg/L)				
2	As (µg/L)	1.5	0.9	7.2	2.9
3	Cd (µg/L)	0.0	0.2	0.0	0.0
4	Cr (µg/L)	1.7	4.2	0.4	1.0
5	Cu (µg/L)	3.5	7.1	2.3	1.6
6	Hg (µg/L)				
7	Mn (mg/L)				
8	Ni (µg/L)		5.1	3.4	10.5
9	Pb (µg/L)	0.5	4.2	4.1	1.5
10	Zn (µg/L)		57.0	59.7	9.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	87	79	69	92
2	HAR_Total (mgCaCO3/L)	169	154	141	159
3	Na% (%)	34	30	34	32
4	RSC (-)	0.5	0.5	0.5	0.5
5	SAR (-)	1.4	1.1	1.3	1.2
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Biligundulu (CC000N7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	46.91	22.87	1.978	16.76
2	EC_FLD (µmho/cm)				
3	EC_GEN (µmho/cm)	513	568	570	529
4	pH_FLD (pH units)				
5	pH_GEN (pH units)	8.3	8.1	8.7	8.3
6	TDS (mg/L)		270	329	334
7	Temp (deg C)	27.7	28.0	28.0	27.3
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	10.0	11.7	24.9	9.6
2	ALK-TOT (mgCaCO3/L)	195	192	163	176
3	B (mg/L)	0.35	0.25	0.20	0.01
4	Ca (mg/L)	38	35	25	31
5	Cl (mg/L)	48.0	62.7	81.4	70.2
6	CO3 (mg/L)	12.1	14.1	30.0	11.5
7	F (mg/L)	0.49		0.61	0.44
8	Fe (mg/L)	0.1	0.1	0.0	0.0
9	HCO3 (mg/L)	213	205	138	191
10	K (mg/L)	4.6	3.6	4.0	3.5
11	Mg (mg/L)	19.8	20.4	18.8	23.2
12	Na (mg/L)	40.0	52.3	64.4	49.1
13	NH3-N (mg N/L)				
14	NO2+NO3 (mg N/L)	0.62	1.36	0.47	0.69
15	NO2-N (mgN/L)	0.01	0.02	0.01	0.00
16	NO3-N (mgN/L)	0.61	1.34	0.45	0.69
17	o-PO4-P (mg P/L)	0.014	0.038	0.062	0.072
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	14.1	23.3	13.9	17.4
20	SO4 (mg/L)	9.9	14.1	17.0	14.2
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.8	1.4	2.3	1.1
2	COD (mg/L)				10.7
3	DO (mg/L)	5.4	6.3	6.2	6.1
4	DO_SAT% (%)	69	81	80	77
	TRACE & TOXIC				
1	Ag (µg/L)				
2	As (µg/L)		5.8		0.8
3	Cd (µg/L)				0.0
4	Cr (µg/L)		0.6		0.1
5	Cu (µg/L)		0.6		0.6
6	Hg (µg/L)				
7	Mn (mg/L)				
8	Ni (µg/L)		5.6		0.9
9	Pb (µg/L)				0.6
10	Zn (µg/L)		4.6		1.5
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	95	88	62	77
2	HAR_Total (mgCaCO3/L)	177	173	140	174
3	Na% (%)	32	39	48	38
4	RSC (-)	0.4	0.4	0.5	0.1
5	SAR (-)	1.3	1.7	2.3	1.6
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: T. BEKUPPE	Code	: T. BEKUPPE
State	: Karnataka	District	Bangalore Rural
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Arkavathi	Sub Tributary	:
Sub-Sub Tributary	:	Local River	: Arkavathi
Division	: Cauvery Division, Bangalore	Sub-Division	: Upper Cauvery SD, Bangalore
Drainage Area	: 3500 Sq. Km.	Bank	: Left
Latitude	: 12°33'00"	Longitude	: 77°25'00"
Zero of Gauge (m)	: 604.000 (m.s.l) 600.000 (m.s.l)	11/11/2003 01/06/2005	- 31/05/2005
	Opening Date	Closing Date	
Gauge	: 11/11/2003		
Discharge	: 24/11/2003		
Sediment	: 26/03/2013		
Water Quality	: 01/12/2003		

Water Quality Datasheet for the period : 2017-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/06/2017	12/06/2017	21/06/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	13.11	8.388	6.054
2	Colour_Cod (-)	Light Brown	Light Brown	Light Brown
3	EC_GEN (µmho/cm)	1072	1256	1293
4	Odour_Code (-)	odour free	odourless	odour free
5	pH_GEN (pH units)	7.6	7.7	7.5
6	TDS (mg/L)	598	788	728
7	Temp (deg C)	25.5	26.0	26.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	295	388	373
3	B (mg/L)	0.23	0.18	0.26
4	Ca (mg/L)	62	55	63
5	Cl (mg/L)	148.0	160.8	159.0
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.53	0.65	0.55
8	Fe (mg/L)	0.2	0.1	0.1
9	HCO3 (mg/L)	360	474	455
10	K (mg/L)	16.7	16.9	18.0
11	Mg (mg/L)	27.9	37.5	44.7
12	Na (mg/L)	123.1	141.1	128.1
13	NO2+NO3 (mg N/L)	2.84	2.21	4.19
14	NO2-N (mgN/L)	0.61	0.87	0.65
15	NO3-N (mgN/L)	2.23	1.35	3.55
16	o-PO4-P (mg P/L)	1.343	1.684	2.304
17	SiO2 (mg/L)	30.5	31.2	34.4
18	SO4 (mg/L)	48.0	25.6	28.4
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	12.3	27.2	22.6
2	COD (mg/L)			
3	DO (mg/L)	3.0	2.6	2.3
4	DO_SAT% (%)	36	32	28
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	155	138	158
2	HAR_Total (mgCaCO3/L)	271	294	344
3	Na% (%)	48	49	43
4	RSC (-)	0.5	1.9	0.6
5	SAR (-)	3.3	3.6	3.0
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	03/07/2017	11/07/2017	21/07/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	3.534	4.392	5.849
2	Colour_Cod (-)	Light Brown	Light Brown	Light Brown
3	EC_GEN (µmho/cm)	1390	1338	1420
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.7	7.7	7.6
6	TDS (mg/L)	766	746	796
7	Temp (deg C)	26.0	25.5	23.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	393	374	448
3	B (mg/L)	0.17	0.41	0.13
4	Ca (mg/L)	76	80	77
5	Cl (mg/L)	182.1	175.0	171.5
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.93	0.87	0.93
8	Fe (mg/L)	0.1	0.0	0.0
9	HCO3 (mg/L)	479	457	546
10	K (mg/L)	20.2	20.6	21.5
11	Mg (mg/L)	48.1	34.4	48.8
12	Na (mg/L)	140.7	133.9	132.1
13	NO2+NO3 (mg N/L)	6.05	5.91	5.10
14	NO2-N (mgN/L)	1.24	0.81	0.84
15	NO3-N (mgN/L)	4.81	5.10	4.26
16	o-PO4-P (mg P/L)	2.656	2.801	3.100
17	SiO2 (mg/L)	49.6	50.0	52.7
18	SO4 (mg/L)	22.4	22.2	25.0
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	27.2	10.0	14.1
2	COD (mg/L)			
3	DO (mg/L)	1.6	1.8	2.0
4	DO_SAT% (%)	19	22	23
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	189	201	192
2	HAR_Total (mgCaCO3/L)	389	344	396
3	Na% (%)	43	44	41
4	RSC (-)	0.1	0.6	1.1
5	SAR (-)	3.1	3.1	2.9
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/08/2017	11/08/2017	21/08/2017
		B	A	A
	PHYSICAL			
1	Q (cumec)	3.562	13.60	14.69
2	Colour_Cod (-)	Light Brown	Light Brown	Light Brown
3	EC_GEN (µmho/cm)	1419	1285	1075
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.9	7.7	7.7
6	TDS (mg/L)	808	726	636
7	Temp (deg C)	25.5	26.0	25.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	452	348	328
3	B (mg/L)	0.33	0.23	0.33
4	Ca (mg/L)	77	68	71
5	Cl (mg/L)	205.9	173.2	131.7
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.86	0.67	0.57
8	Fe (mg/L)	0.2	0.1	0.1
9	HCO3 (mg/L)	551	424	400
10	K (mg/L)	19.0	19.7	17.0
11	Mg (mg/L)	47.0	34.4	25.5
12	Na (mg/L)	160.1	140.1	104.1
13	NO2+NO3 (mg N/L)	6.70	5.24	13.85
14	NO2-N (mgN/L)	0.84	0.84	0.65
15	NO3-N (mgN/L)	5.86	4.40	13.20
16	o-PO4-P (mg P/L)	2.139	3.762	3.658
17	SiO2 (mg/L)	35.4	22.0	18.6
18	SO4 (mg/L)	17.4	30.0	32.0
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	17.5	13.4	17.2
2	COD (mg/L)			
3	DO (mg/L)	1.8	1.7	2.2
4	DO_SAT% (%)	21	21	27
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)	1.0		
2	Cd (µg/L)	0.0		
3	Cr (µg/L)	12.0		
4	Cu (µg/L)	2.0		
5	Ni (µg/L)			
6	Pb (µg/L)	4.0		
7	Zn (µg/L)	8.0		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	194	171	178
2	HAR_Total (mgCaCO3/L)	389	314	284
3	Na% (%)	46	47	43
4	RSC (-)	1.3	0.7	0.9
5	SAR (-)	3.5	3.4	2.7
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	04/09/2017	11/09/2017	21/09/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	44.36	107.0	17.40
2	Colour_Cod (-)	Clear	Brown	Light Brown
3	EC_GEN (µmho/cm)	753	477	903
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.7	7.4	7.7
6	TDS (mg/L)	476	292	578
7	Temp (deg C)	26.0	26.0	26.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	175	124	264
3	B (mg/L)	0.18	0.13	0.11
4	Ca (mg/L)	42	23	48
5	Cl (mg/L)	122.1	63.2	113.6
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.51	0.34	0.49
8	Fe (mg/L)	0.1	0.8	0.1
9	HCO3 (mg/L)	213	151	322
10	K (mg/L)	12.2	8.3	11.7
11	Mg (mg/L)	19.1	16.8	29.0
12	Na (mg/L)	80.0	48.2	92.4
13	NO2+NO3 (mg N/L)	3.88	4.43	3.41
14	NO2-N (mgN/L)	0.37	0.68	0.73
15	NO3-N (mgN/L)	3.50	3.76	2.68
16	o-PO4-P (mg P/L)	0.000	0.734	1.292
17	SiO2 (mg/L)	7.9	14.6	18.9
18	SO4 (mg/L)	26.8	18.5	28.1
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	11.0	21.0	17.7
2	COD (mg/L)			
3	DO (mg/L)	2.8	2.4	2.8
4	DO_SAT% (%)	35	30	34
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	104	57	120
2	HAR_Total (mgCaCO3/L)	183	126	240
3	Na% (%)	47	44	44
4	RSC (-)	0.0	0.0	0.5
5	SAR (-)	2.6	1.9	2.6
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	03/10/2017	11/10/2017	21/10/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	84.34	281.4	46.37
2	Colour_Cod (-)	Brown	Brown	Light Brown
3	EC_GEN (μmho/cm)	565	381	712
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.7	7.5	7.7
6	TDS (mg/L)	384	256	452
7	Temp (deg C)	25.5	26.0	24.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	157	122	216
3	B (mg/L)	0.44	0.44	0.09
4	Ca (mg/L)	31	30	43
5	Cl (mg/L)	66.7	37.3	83.4
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.40	0.34	0.49
8	Fe (mg/L)	0.4	0.5	0.2
9	HCO3 (mg/L)	192	148	264
10	K (mg/L)	7.3	5.9	7.6
11	Mg (mg/L)	20.9	17.0	22.5
12	Na (mg/L)	53.0	26.0	65.0
13	NO2+NO3 (mg N/L)	5.23	4.45	4.51
14	NO2-N (mgN/L)	0.39	0.21	1.15
15	NO3-N (mgN/L)	4.85	4.25	3.36
16	o-PO4-P (mg P/L)	0.186	0.052	0.289
17	SiO2 (mg/L)	15.7	11.0	19.7
18	SO4 (mg/L)	16.8	16.6	17.6
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	7.2	5.3	10.0
2	COD (mg/L)			
3	DO (mg/L)	4.4	3.4	4.8
4	DO_SAT% (%)	53	42	57
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	79	74	108
2	HAR_Total (mgCaCO3/L)	166	145	201
3	Na% (%)	40	27	40
4	RSC (-)	0.0	0.0	0.3
5	SAR (-)	1.8	0.9	2.0
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/11/2017	13/11/2017	21/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	17.21	13.48	13.94
2	Colour_Cod (-)	Clear	Light Brown	Light Brown
3	EC_GEN (µmho/cm)	891	1103	1159
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.7	7.9	7.8
6	TDS (mg/L)	536	656	690
7	Temp (deg C)	24.5	24.0	24.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	240	341	350
3	B (mg/L)	0.17	0.22	0.16
4	Ca (mg/L)	53	60	70
5	Cl (mg/L)	116.8	152.7	149.5
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.67	0.74	0.80
8	Fe (mg/L)	0.1	0.1	0.1
9	HCO3 (mg/L)	293	416	427
10	K (mg/L)	9.2	12.1	13.1
11	Mg (mg/L)	28.6	36.3	31.8
12	Na (mg/L)	90.0	108.1	114.1
13	NO2+NO3 (mg N/L)	6.30	7.87	3.43
14	NO2-N (mgN/L)	1.13	1.17	0.47
15	NO3-N (mgN/L)	5.17	6.70	2.96
16	o-PO4-P (mg P/L)	0.723	1.250	1.343
17	SiO2 (mg/L)	14.1	14.1	22.8
18	SO4 (mg/L)	40.0	27.7	26.3
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	17.5	20.6	17.6
2	COD (mg/L)			
3	DO (mg/L)	3.2	2.9	2.9
4	DO_SAT% (%)	38	34	34
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	133	150	176
2	HAR_Total (mgCaCO3/L)	252	301	308
3	Na% (%)	43	43	43
4	RSC (-)	0.0	0.8	0.9
5	SAR (-)	2.5	2.7	2.8
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	04/12/2017	11/12/2017	21/12/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	10.53	9.245	6.585
2	Colour_Cod (-)	Light Brown	Light Brown	Light Brown
3	EC_GEN (µmho/cm)	1187	1320	1360
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.6	7.7	7.9
6	TDS (mg/L)	714	730	768
7	Temp (deg C)	24.0	23.5	23.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	379	435	408
3	B (mg/L)	0.08	0.05	0.22
4	Ca (mg/L)	65	66	78
5	Cl (mg/L)	151.2	162.2	186.0
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.86	1.20	1.06
8	Fe (mg/L)	0.1	0.1	0.2
9	HCO3 (mg/L)	462	531	497
10	K (mg/L)	14.2	15.8	15.8
11	Mg (mg/L)	38.5	45.8	42.3
12	Na (mg/L)	120.1	132.1	149.3
13	NO2+NO3 (mg N/L)	1.97	2.04	7.65
14	NO2-N (mgN/L)	0.19	0.21	1.19
15	NO3-N (mgN/L)	1.78	1.84	6.46
16	o-PO4-P (mg P/L)	1.323	0.000	1.312
17	SiO2 (mg/L)	19.2	15.4	15.6
18	SO4 (mg/L)	19.1	19.5	18.6
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	11.0	6.0	10.8
2	COD (mg/L)			
3	DO (mg/L)	2.5	2.3	2.7
4	DO_SAT% (%)	30	27	32
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)	3.6		
2	Cd (µg/L)	0.1		
3	Cr (µg/L)	6.8		
4	Cu (µg/L)	1.6		
5	Ni (µg/L)	0.4		
6	Pb (µg/L)	1.6		
7	Zn (µg/L)	14.1		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	162	166	196
2	HAR_Total (mgCaCO3/L)	322	357	372
3	Na% (%)	44	43	45
4	RSC (-)	1.2	1.6	0.8
5	SAR (-)	2.9	3.1	3.4
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/01/2018	11/01/2018	22/01/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	6.059	4.622	4.329
2	Colour_Cod (-)	Light Brown	Light Brown	Light Brown
3	EC_GEN (µmho/cm)	1388	1360	1458
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.9	7.7	7.9
6	TDS (mg/L)	812	818	816
7	Temp (deg C)	23.0	23.0	22.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	414	426	476
3	B (mg/L)	0.12	0.00	0.16
4	Ca (mg/L)	79	82	76
5	Cl (mg/L)	217.3	209.5	196.3
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.68	0.68	0.74
8	Fe (mg/L)	0.0	0.0	0.2
9	HCO3 (mg/L)	506	520	581
10	K (mg/L)	17.0	17.4	18.3
11	Mg (mg/L)	40.0	22.7	49.9
12	Na (mg/L)	163.7	159.3	150.7
13	NO2+NO3 (mg N/L)	3.68	4.10	2.97
14	NO2-N (mgN/L)	1.19	0.95	0.11
15	NO3-N (mgN/L)	2.49	3.15	2.86
16	o-PO4-P (mg P/L)	0.372	0.455	0.475
17	SiO2 (mg/L)	22.3	37.9	19.4
18	SO4 (mg/L)	22.5	26.8	36.5
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	16.3	18.3	21.7
2	COD (mg/L)			
3	DO (mg/L)	3.7	3.3	3.3
4	DO_SAT% (%)	43	38	38
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	198	206	191
2	HAR_Total (mgCaCO3/L)	365	300	399
3	Na% (%)	48	52	44
4	RSC (-)	1.0	2.5	1.6
5	SAR (-)	3.7	4.0	3.3
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/02/2018	12/02/2018	21/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	3.957	3.229	3.509
2	Colour_Cod (-)	Light Brown	Light Brown	Light Brown
3	EC_GEN (µmho/cm)	1479	1230	1504
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.7	7.5	7.6
6	TDS (mg/L)	824	700	864
7	Temp (deg C)	22.5	23.0	23.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	467	356	449
3	B (mg/L)	0.15	0.15	0.18
4	Ca (mg/L)	76	68	79
5	Cl (mg/L)	204.1	178.6	209.5
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.72	0.84	0.76
8	Fe (mg/L)	0.0	0.1	0.0
9	HCO3 (mg/L)	569	434	548
10	K (mg/L)	17.8	14.8	18.3
11	Mg (mg/L)	44.3	29.8	40.7
12	Na (mg/L)	158.1	136.9	164.1
13	NO2+NO3 (mg N/L)	7.24	6.65	9.38
14	NO2-N (mgN/L)	0.04	0.17	1.19
15	NO3-N (mgN/L)	7.20	6.49	8.20
16	o-PO4-P (mg P/L)	2.646	1.498	0.568
17	SiO2 (mg/L)	34.4	32.6	33.9
18	SO4 (mg/L)	30.0	37.8	29.7
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	28.0	13.5	19.1
2	COD (mg/L)			
3	DO (mg/L)	3.1	3.3	2.6
4	DO_SAT% (%)	35	38	30
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	190	171	198
2	HAR_Total (mgCaCO3/L)	375	295	368
3	Na% (%)	47	49	48
4	RSC (-)	1.9	1.3	1.7
5	SAR (-)	3.6	3.5	3.7
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/03/2018	12/03/2018	21/03/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	3.384	2.545	3.630
2	Colour_Cod (-)	Light Brown	Light Brown	Light Brown
3	EC_GEN (µmho/cm)	1479	1614	1392
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.7	7.7	7.7
6	TDS (mg/L)	824	902	792
7	Temp (deg C)	23.5	23.5	23.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	467	445	372
3	B (mg/L)	0.15	0.00	0.17
4	Ca (mg/L)	76	86	67
5	Cl (mg/L)	204.1	217.3	173.6
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.72	0.70	0.63
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	569	543	454
10	K (mg/L)	17.8	19.6	17.8
11	Mg (mg/L)	44.3	40.9	62.0
12	Na (mg/L)	158.1	184.2	129.5
13	NO2+NO3 (mg N/L)	7.24	8.02	8.98
14	NO2-N (mgN/L)	0.04	0.81	0.79
15	NO3-N (mgN/L)	7.20	7.20	8.20
16	o-PO4-P (mg P/L)	2.646	1.757	2.180
17	SiO2 (mg/L)	34.4	26.0	21.5
18	SO4 (mg/L)	30.0	36.3	43.3
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	28.0	23.0	11.0
2	COD (mg/L)			
3	DO (mg/L)	2.7	2.5	2.8
4	DO_SAT% (%)	32	29	33
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	190	216	169
2	HAR_Total (mgCaCO3/L)	375	386	427
3	Na% (%)	47	50	39
4	RSC (-)	1.9	1.2	0.0
5	SAR (-)	3.6	4.1	2.7
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	02/04/2018	11/04/2018	21/04/2018
		A	B	B
	PHYSICAL			
1	Q (cumec)	3.675	2.654	4.054
2	Colour_Cod (-)	Light Brown	Clear	Clear
3	EC_GEN (µmho/cm)	1489	1467	1409
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.7	7.7	7.6
6	TDS (mg/L)	870	818	816
7	Temp (deg C)	23.5	25.0	24.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	472	315	393
3	B (mg/L)	0.17	0.04	0.11
4	Ca (mg/L)	78	78	76
5	Cl (mg/L)	201.6	257.0	174.0
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.86	0.78	0.74
8	Fe (mg/L)	0.0	0.0	0.1
9	HCO3 (mg/L)	576	384	479
10	K (mg/L)	17.5	18.4	16.9
11	Mg (mg/L)	41.7	59.3	57.5
12	Na (mg/L)	160.5	146.5	117.6
13	NO2+NO3 (mg N/L)	7.27	8.27	7.78
14	NO2-N (mgN/L)	0.83	0.84	0.83
15	NO3-N (mgN/L)	6.45	7.43	6.95
16	o-PO4-P (mg P/L)	1.519	1.622	1.746
17	SiO2 (mg/L)	35.8	22.4	19.0
18	SO4 (mg/L)	32.5	26.2	25.4
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	17.9	15.0	16.9
2	COD (mg/L)	46.0	48.0	44.0
3	DO (mg/L)	2.3	2.7	1.2
4	DO_SAT% (%)	27	33	14
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)	0.8		
2	Cd (µg/L)	0.0		
3	Cr (µg/L)	0.1		
4	Cu (µg/L)	1.2		
5	Ni (µg/L)	11.6		
6	Pb (µg/L)	3.2		
7	Zn (µg/L)	0.6		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	194	194	190
2	HAR_Total (mgCaCO3/L)	368	441	429
3	Na% (%)	47	41	36
4	RSC (-)	2.1	0.0	0.0
5	SAR (-)	3.7	3.0	2.5
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/05/2018	11/05/2018	21/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	5.111	10.69	10.84
2	Colour_Cod (-)	Light Brown	Clear	Light Brown
3	EC_GEN (µmho/cm)	1424	1231	1167
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.8	7.7	7.7
6	TDS (mg/L)	788	690	680
7	Temp (deg C)	24.0	23.0	23.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	371	362	342
3	B (mg/L)	0.22	0.12	0.20
4	Ca (mg/L)	67	78	60
5	Cl (mg/L)	217.3	162.2	150.2
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.78	0.70	0.78
8	Fe (mg/L)	0.2	0.3	0.1
9	HCO3 (mg/L)	453	441	417
10	K (mg/L)	1.6	17.5	17.1
11	Mg (mg/L)	49.1	45.4	38.9
12	Na (mg/L)	16.0	111.8	113.0
13	NO2+NO3 (mg N/L)	7.00	10.79	15.83
14	NO2-N (mgN/L)	0.69	0.59	5.93
15	NO3-N (mgN/L)	6.31	10.20	9.89
16	o-PO4-P (mg P/L)	7.254	7.306	6.603
17	SiO2 (mg/L)	29.3	24.5	20.4
18	SO4 (mg/L)	37.7	38.7	26.9
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	15.2	22.6	24.5
2	COD (mg/L)	70.0	95.0	50.0
3	DO (mg/L)	2.1	2.3	2.1
4	DO_SAT% (%)	25	27	24
5	FCol-MPN (MPN/100mL)	188000	69000	390000
6	Tcol-MPN (MPN/100mL)	564000	99000	510000
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	167	194	151
2	HAR_Total (mgCaCO3/L)	371	383	313
3	Na% (%)	9	38	43
4	RSC (-)	0.1	0.0	0.6
5	SAR (-)	0.4	2.5	2.8
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	363.8	1.927	18.02
2	EC_GEN (µmho/cm)	36	1614	381	1207
3	pH_GEN (pH units)	36	7.9	7.4	7.7
4	TDS (mg/L)	36	902	256	698
5	Temp (deg C)	36	26.5	22.5	24.4
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	36	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	36	476	122	354
3	B (mg/L)	36	0.44	0.00	0.18
4	Ca (mg/L)	36	86	23	66
5	Cl (mg/L)	36	257.0	37.3	163.5
6	CO3 (mg/L)	36	0.0	0.0	0
7	F (mg/L)	36	1.20	0.34	0.71
8	Fe (mg/L)	36	0.8	0.0	0.1
9	HCO3 (mg/L)	36	581	148	432
10	K (mg/L)	36	21.5	1.6	15.3
11	Mg (mg/L)	36	62.0	16.8	37.9
12	Na (mg/L)	36	184.2	16.0	120.9
13	NO2+NO3 (mg N/L)	36	15.83	1.97	6.18
14	NO2-N (mgN/L)	36	5.93	0.04	0.84
15	NO3-N (mgN/L)	36	13.20	1.35	5.34
16	o-PO4-P (mg P/L)	36	7.306	0.000	1.961
17	SiO2 (mg/L)	36	52.7	7.9	25.7
18	SO4 (mg/L)	36	48.0	16.6	28
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	36	28.0	5.3	16.9
2	COD (mg/L)	6	95.0	44.0	58.8
3	DO (mg/L)	36	4.8	1.2	2.7
4	DO_SAT% (%)	36	57	14	32
5	FCol-MPN (MPN/100mL)	3	390000	69000	215667
6	Tcol-MPN (MPN/100mL)	3	564000	99000	391000
	TRACE & TOXIC				
1	As (µg/L)	3	3.6	0.8	1.8
2	Cd (µg/L)	3	0.1	0.0	0
3	Cr (µg/L)	3	12.0	0.1	6.3
4	Cu (µg/L)	3	2.0	1.2	1.6
5	Ni (µg/L)	2	11.6	0.4	6
6	Pb (µg/L)	3	4.0	1.6	2.9
7	Zn (µg/L)	3	14.1	0.6	7.6
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	36	216	57	164
2	HAR_Total (mgCaCO3/L)	36	441	126	322
3	Na% (%)	36	52	9	43
4	RSC (-)	36	2.5	0.0	0.8
5	SAR (-)	36	4.1	0.4	2.9
	PESTICIDES				

Water Quality Seasonal Average for the period: 2003-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)		9.047	8.066	6.815	11.38
2	EC_GEN (µmho/cm)		882	877	1102	1043
3	pH_GEN (pH units)		7.7	7.6	7.7	7.4
4	TDS (mg/L)					
5	Temp (deg C)		25.5	26.9	26.4	25.7
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)		243	242	313	307
3	B (mg/L)		0.37	0.18	0.18	0.13
4	Ca (mg/L)		53	55	66	61
5	Cl (mg/L)		114.9	103.0	136.4	127.4
6	CO3 (mg/L)		0.0	0.0	0.0	0.0
7	F (mg/L)		0.51	0.52	0.38	0.79
8	Fe (mg/L)		0.1	0.1	0.0	0.0
9	HCO3 (mg/L)		297	295	382	374
10	K (mg/L)		13.1	11.7	13.4	14.5
11	Mg (mg/L)		22.7	21.2	27.0	25.3
12	Na (mg/L)		87.4	87.8	111.3	108.1
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)		8.23	7.66	13.26	10.55
15	NO2-N (mgN/L)		0.31	0.34	0.58	0.73
16	NO3-N (mgN/L)		7.92	7.32	12.68	9.83
17	o-PO4-P (mg P/L)		1.054	1.174	1.806	1.690
18	SiO2 (mg/L)		33.8	25.4	30.6	28.9
19	SO4 (mg/L)		19.9	19.6	21.5	24.9
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		2.3	2.8		11.3
2	COD (mg/L)					
3	DO (mg/L)		4.3	4.8	2.9	2.7
4	DO_SAT% (%)		53	61	36	33
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		134	138	164	154
2	HAR_Total (mgCaCO3/L)		228	226	276	259
3	Na% (%)		44	44	45	46
4	RSC (-)		0.3	0.4	0.8	1.0
5	SAR (-)		2.5	2.5	2.9	2.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2003-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	4.109	25.20	6.670	8.217	9.042
2	EC_GEN (µmho/cm)	1326	1211	1302	1238	1228
3	pH_GEN (pH units)	7.5	7.4	7.7	7.6	7.5
4	TDS (mg/L)					734
5	Temp (deg C)	25.6	25.2	25.3	25.1	24.7
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	2.8	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	351	333	352	310	301
3	B (mg/L)		0.03	0.32	0.99	0.22
4	Ca (mg/L)	77	72	71	72	61
5	Cl (mg/L)	187.6	164.3	182.0	176.8	182.0
6	CO3 (mg/L)	0.0	0.0	3.4	0.0	0.0
7	F (mg/L)	0.54	0.47	0.43	0.53	
8	Fe (mg/L)		0.1	0.1	0.1	0.1
9	HCO3 (mg/L)	428	406	422	378	367
10	K (mg/L)	17.5	14.2	25.3	16.7	18.4
11	Mg (mg/L)	29.5	24.5	32.7	29.9	37.8
12	Na (mg/L)	152.2	145.7	138.1	135.3	130.0
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	16.26	16.24	17.04	12.94	17.10
15	NO2-N (mgN/L)	2.38	1.18	0.54	0.95	1.08
16	NO3-N (mgN/L)	13.88	15.05	16.51	11.99	16.02
17	o-PO4-P (mg P/L)		1.263	0.798	2.397	2.254
18	SiO2 (mg/L)		30.9	20.4	34.4	31.0
19	SO4 (mg/L)	37.1	24.1	31.3	34.1	28.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	6.6	9.2	12.6	9.0	11.1
2	COD (mg/L)					
3	DO (mg/L)	2.3	2.9	2.4	3.3	2.2
4	DO_SAT% (%)	28	36	29	39	27
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)	1.6	3.0			
2	Cd (µg/L)		3.0			
3	Cr (µg/L)	11.9	3.2			
4	Cu (µg/L)	13.1	1.0			
5	Ni (µg/L)	8.8	15.7			
6	Pb (µg/L)		0.0			
7	Zn (µg/L)		0.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	192	181	178	180	151
2	HAR_Total (mgCaCO3/L)	315	283	314	305	309
3	Na% (%)	50	51	46	48	47
4	RSC (-)	0.8	1.2	0.8	0.4	0.4
5	SAR (-)	3.7	3.8	3.4	3.4	3.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2003-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	43.60	5.694	7.549	5.773	6.074
2	EC_GEN (µmho/cm)	1023	877	1122	1131	1153
3	pH_GEN (pH units)	7.6	7.8	7.6	7.6	7.6
4	TDS (mg/L)	602				
5	Temp (deg C)	25.6	20.8	20.4	23.8	24.1
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	297	274	321	325	342
3	B (mg/L)	0.24	0.01	0.22	0.19	0.19
4	Ca (mg/L)	56	52	70	71	71
5	Cl (mg/L)	132.9	93.4	134.2	140.6	148.3
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.61	0.45	0.63	0.54	0.57
8	Fe (mg/L)	0.2	0.3	0.1	1.2	0.0
9	HCO3 (mg/L)	362	334	392	396	417
10	K (mg/L)	14.8	11.0	13.4	12.2	13.5
11	Mg (mg/L)	31.6	36.4	29.6	28.9	29.6
12	Na (mg/L)	104.5	71.0	119.8	121.9	124.1
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	5.20	0.35	11.34	8.62	8.63
15	NO2-N (mgN/L)	0.72	0.00	0.61	0.48	0.26
16	NO3-N (mgN/L)	4.48	0.35	10.73	8.13	8.37
17	o-PO4-P (mg P/L)	1.733	1.219	1.310	1.393	1.240
18	SiO2 (mg/L)	27.5	13.9	36.8	32.6	34.0
19	SO4 (mg/L)	25.0	12.8	26.8	26.1	37.5
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	15.6	1.8	1.1	5.4	10.5
2	COD (mg/L)					
3	DO (mg/L)	2.6	4.3	3.4	3.9	3.2
4	DO_SAT% (%)	32	48	37	46	38
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)	1.0				
2	Cd (µg/L)	0.0				
3	Cr (µg/L)	12.0				
4	Cu (µg/L)	2.0				
5	Ni (µg/L)					
6	Pb (µg/L)	4.0				
7	Zn (µg/L)	8.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	141	131	175	177	178
2	HAR_Total (mgCaCO3/L)	273	283	299	297	301
3	Na% (%)	43	34	45	46	46
4	RSC (-)	0.6	0.2	0.5	0.6	0.9
5	SAR (-)	2.7	1.9	3.0	3.1	3.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2003-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	8.190	6.851	6.965	5.509	7.170
2	EC_GEN (µmho/cm)	1189	1364	1333	1300	1359
3	pH_GEN (pH units)	7.3	7.5	7.6	7.9	7.8
4	TDS (mg/L)					688
5	Temp (deg C)	24.1	24.0	22.9	24.5	24.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	337	358	370	366	384
3	B (mg/L)	0.00		0.11	0.43	0.45
4	Ca (mg/L)	72	80	74	83	82
5	Cl (mg/L)	154.6	170.3	184.0	181.0	190.3
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)		0.61	0.56	0.45	0.60
8	Fe (mg/L)	0.3		0.1	0.2	0.1
9	HCO3 (mg/L)	415	437	459	447	469
10	K (mg/L)	14.7	15.4	12.1	43.0	15.8
11	Mg (mg/L)	28.2	31.1	23.3	29.9	30.1
12	Na (mg/L)	129.3	157.3	184.6	128.0	147.2
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	16.14	18.87	11.91	14.19	12.97
15	NO2-N (mgN/L)	2.59	2.13	1.20	0.66	0.98
16	NO3-N (mgN/L)	13.55	16.74	10.71	13.53	11.99
17	o-PO4-P (mg P/L)	1.442		0.907	2.106	2.177
18	SiO2 (mg/L)	24.2		32.0	25.9	52.5
19	SO4 (mg/L)	31.3	44.9	26.1	37.4	32.7
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	10.8	8.6	9.2	10.5	10.0
2	COD (mg/L)					
3	DO (mg/L)	3.9	2.7	3.0	3.2	3.9
4	DO_SAT% (%)	46	32	35	38	45
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)	0.5	7.5			0.3
2	Cd (µg/L)	0.3	0.0		2.4	0.0
3	Cr (µg/L)	5.6	0.2		1.5	0.6
4	Cu (µg/L)	63.9	0.9		5.5	0.2
5	Ni (µg/L)	5.1	1.3		13.4	2.0
6	Pb (µg/L)	1.1			23.8	11.8
7	Zn (µg/L)				10.8	1.4
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	180	201	185	208	204
2	HAR_Total (mgCaCO3/L)	297	331	282	333	330
3	Na% (%)	47	49	57	42	48
4	RSC (-)	0.9	0.6	1.9	0.8	1.1
5	SAR (-)	3.3	3.8	4.8	3.0	3.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2003-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	3.816	8.058	4.527	5.007	5.007
2	EC_GEN (µmho/cm)	1390	1287	839	1240	1179
3	pH_GEN (pH units)	7.6	7.7	7.7	7.7	7.5
4	TDS (mg/L)	812	744			
5	Temp (deg C)	23.5	23.4	26.5	23.5	25.2
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	375	395	231	345	315
3	B (mg/L)	0.43	0.14	0.01	0.16	0.81
4	Ca (mg/L)	81	71	43	75	68
5	Cl (mg/L)	205.0	177.8	101.3	166.9	152.1
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)		0.81	0.87	0.77	0.64
8	Fe (mg/L)	0.2	0.1	0.3	0.1	0.1
9	HCO3 (mg/L)	458	482	281	420	385
10	K (mg/L)	18.6	15.3	5.3	14.3	13.5
11	Mg (mg/L)	36.6	37.6	35.6	31.8	27.5
12	Na (mg/L)	150.9	137.2	74.9	145.0	126.7
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	11.59	5.27	0.12	11.53	10.86
15	NO2-N (mgN/L)	0.94	0.67	0.00	0.19	0.14
16	NO3-N (mgN/L)	10.65	4.61	0.12	11.34	10.71
17	o-PO4-P (mg P/L)	1.578	0.997	0.544	1.698	1.846
18	SiO2 (mg/L)	36.9	23.4	23.0	35.9	39.3
19	SO4 (mg/L)	34.6	27.9	25.7	16.5	23.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	8.6	16.7	2.9	3.8	8.1
2	COD (mg/L)					
3	DO (mg/L)	2.3	3.0	4.4	2.7	3.7
4	DO_SAT% (%)	27	35	55	31	44
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)	1.8	3.6	11.9		
2	Cd (µg/L)	0.1	0.1	1.0		
3	Cr (µg/L)	0.3	6.8		2.0	
4	Cu (µg/L)	0.5	1.6	14.8	12.5	
5	Ni (µg/L)	16.2	0.4		9.9	
6	Pb (µg/L)	2.0	1.6	1.6		
7	Zn (µg/L)	0.3	14.1	35.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	203	178	107	188	171
2	HAR_Total (mgCaCO3/L)	355	334	255	320	285
3	Na% (%)	47	46	42	48	47
4	RSC (-)	0.9	1.3	0.0	0.5	0.6
5	SAR (-)	3.6	3.3	2.1	3.5	3.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2003-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	5.914	4.292	2.293	3.765
2	EC_GEN (µmho/cm)	1330	1436	1518	1497
3	pH_GEN (pH units)	7.5	7.4	7.5	7.6
4	TDS (mg/L)				
5	Temp (deg C)	23.2	25.5	25.8	24.3
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	338	396	390	433
3	B (mg/L)	0.23		0.00	0.32
4	Ca (mg/L)	74	82	86	90
5	Cl (mg/L)	162.4	204.6	215.3	199.2
6	CO3 (mg/L)	0.0	0.0	0.0	0.0
7	F (mg/L)	0.51	0.58		0.69
8	Fe (mg/L)	0.0		0.1	0.1
9	HCO3 (mg/L)	437	484	475	528
10	K (mg/L)	16.1	17.6	17.6	16.8
11	Mg (mg/L)	30.8	33.5	40.8	34.7
12	Na (mg/L)	135.1	164.2	182.3	176.8
13	NH3-N (mg N/L)				
14	NO2+NO3 (mg N/L)	10.49	19.21	20.80	13.90
15	NO2-N (mgN/L)	0.16	4.59	1.90	0.11
16	NO3-N (mgN/L)	10.33	14.63	18.90	13.79
17	o-PO4-P (mg P/L)	2.310		6.609	1.285
18	SiO2 (mg/L)	45.0		36.1	76.6
19	SO4 (mg/L)	34.8	30.1	38.6	22.9
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)		12.2	5.9	11.3
2	COD (mg/L)				
3	DO (mg/L)	2.5	3.3	2.7	2.9
4	DO_SAT% (%)	29	40	33	35
5	FCol-MPN (MPN/100mL)				
6	Tcol-MPN (MPN/100mL)				
	TRACE & TOXIC				
1	As (µg/L)	1.6	0.4	2.2	0.4
2	Cd (µg/L)	0.0	0.7	0.5	0.0
3	Cr (µg/L)	4.6	24.1	2.7	0.8
4	Cu (µg/L)	3.5	14.6	3.5	3.4
5	Ni (µg/L)		1.5	11.8	11.0
6	Pb (µg/L)	0.1	5.2	12.9	1.5
7	Zn (µg/L)		46.0	5.3	10.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	184	206	214	224
2	HAR_Total (mgCaCO3/L)	312	346	384	368
3	Na% (%)	47	49	50	50
4	RSC (-)	1.0	1.1	0.4	1.3
5	SAR (-)	3.3	3.9	4.1	4.0
	PESTICIDES				

Water Quality Seasonal Average for the period: 2003-2018

Station Name : T. BEKUPPE (T. BEKUPPE)

Division : Cauvery Division, Bangalore

Local River : Arkavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	6.342	3.418	5.392	5.742
2	EC_GEN (µmho/cm)	1450	1447	1442	1408
3	pH_GEN (pH units)	7.7	7.3	7.7	7.7
4	TDS (mg/L)		709	846	798
5	Temp (deg C)	25.0	25.7	25.6	23.7
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	388	406	401	393
3	B (mg/L)	0.49	0.22	0.24	0.13
4	Ca (mg/L)	84	98	61	74
5	Cl (mg/L)	213.0	212.5	207.7	195.2
6	CO3 (mg/L)	0.0	0.0	0.0	0.0
7	F (mg/L)	0.57		0.98	0.74
8	Fe (mg/L)	0.1	0.1	0.1	0.1
9	HCO3 (mg/L)	474	495	489	480
10	K (mg/L)	26.1	13.5	19.3	16.0
11	Mg (mg/L)	35.6	33.7	40.6	48.8
12	Na (mg/L)	154.9	160.2	177.3	126.4
13	NH3-N (mg N/L)				
14	NO2+NO3 (mg N/L)	21.70	13.02	6.14	9.02
15	NO2-N (mgN/L)	1.56	2.04	0.72	1.26
16	NO3-N (mgN/L)	20.14	10.98	5.42	7.76
17	o-PO4-P (mg P/L)	0.403	1.883	2.187	3.626
18	SiO2 (mg/L)	46.9	36.0	32.4	25.9
19	SO4 (mg/L)	31.4	29.3	55.6	33.0
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	14.2	7.9	15.0	19.3
2	COD (mg/L)				58.8
3	DO (mg/L)	3.1	3.0	1.7	2.3
4	DO_SAT% (%)	37	37	21	27
5	FCol-MPN (MPN/100mL)				215667
6	Tcol-MPN (MPN/100mL)				391000
	TRACE & TOXIC				
1	As (µg/L)		7.0		0.8
2	Cd (µg/L)				0.0
3	Cr (µg/L)		0.7		0.1
4	Cu (µg/L)		0.8		1.2
5	Ni (µg/L)		0.6		11.6
6	Pb (µg/L)				3.2
7	Zn (µg/L)		8.1		0.6
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	209	244	154	185
2	HAR_Total (mgCaCO3/L)	358	384	323	388
3	Na% (%)	46	47	53	39
4	RSC (-)	0.7	0.6	1.6	0.7
5	SAR (-)	3.6	3.6	4.3	2.8
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: T.K.HALLI	Code	: CCM00B9
State	: Karnataka	District	Mandya
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Shimsa	Sub Tributary	:
Sub-Sub Tributary	:	Local River	: Shimsa
Division	: Cauvery Division, Bangalore	Sub-Division	: Upper Cauvery SD, Bangalore
Drainage Area	: 7890 Sq. Km.	Bank	: Left
Latitude	: 12°25'00"	Longitude	: 77°13'00"
Zero of Gauge (m)	: 580.000 (m.s.l)	12/06/1978	
	Opening Date	Closing Date	
Gauge	: 12/06/1978		
Discharge	: 12/06/1978		
Sediment	: 01/06/1985		
Water Quality	: 02/06/1979		

Water Quality Datasheet for the period : 2017-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/06/2017	04/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SiO2 (mg/L)			
18	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	DO (mg/L)			
3	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/09/2017	03/10/2017	11/10/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	24.67	48.83
2	Colour_Cod (-)		Clear	Clear
3	EC_GEN (μmho/cm)		487	501
4	Odour_Code (-)		odour free	odour free
5	pH_GEN (pH units)		7.9	7.9
6	TDS (mg/L)		298	342
7	Temp (deg C)		28.0	26.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	0.0
2	ALK-TOT (mgCaCO3/L)		157	173
3	B (mg/L)		0.43	0.58
4	Ca (mg/L)		37	36
5	Cl (mg/L)		51.8	48.3
6	CO3 (mg/L)		0.0	0.0
7	F (mg/L)		0.27	0.38
8	Fe (mg/L)		0.0	0.0
9	HCO3 (mg/L)		192	210
10	K (mg/L)		5.6	5.2
11	Mg (mg/L)		21.7	23.4
12	Na (mg/L)		33.0	38.0
13	NO2+NO3 (mg N/L)		1.47	1.62
14	NO2-N (mgN/L)		0.04	0.03
15	NO3-N (mgN/L)		1.43	1.60
16	o-PO4-P (mg P/L)		0.134	0.124
17	SiO2 (mg/L)		16.3	14.9
18	SO4 (mg/L)		27.4	25.2
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		1.8	1.7
2	DO (mg/L)		4.0	4.6
3	DO_SAT% (%)		51	56
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		94	89
2	HAR_Total (mgCaCO3/L)		184	187
3	Na% (%)		27	30
4	RSC (-)		0.0	0.0
5	SAR (-)		1.1	1.2
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	21/10/2017	01/11/2017	13/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	11.05	10.25	7.370
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (μmho/cm)	548	603	611
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.8	8.0	8.0
6	TDS (mg/L)	334	366	376
7	Temp (deg C)	28.0	28.0	28.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	193	186	194
3	B (mg/L)	0.05	0.10	0.16
4	Ca (mg/L)	41	37	37
5	Cl (mg/L)	55.7	66.7	76.3
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.40	0.53	0.49
8	Fe (mg/L)	0.0	0.1	0.1
9	HCO3 (mg/L)	235	227	236
10	K (mg/L)	4.0	3.7	3.2
11	Mg (mg/L)	20.8	25.8	30.9
12	Na (mg/L)	40.0	50.0	54.0
13	NO2+NO3 (mg N/L)	1.13	0.48	1.55
14	NO2-N (mgN/L)	0.03	0.01	0.01
15	NO3-N (mgN/L)	1.11	0.46	1.54
16	o-PO4-P (mg P/L)	0.114	0.062	0.062
17	SiO2 (mg/L)	16.1	27.4	14.3
18	SO4 (mg/L)	21.7	40.7	29.0
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	3.2	0.8	2.0
2	DO (mg/L)	5.0	5.7	4.5
3	DO_SAT% (%)	64	73	57
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	104	93	94
2	HAR_Total (mgCaCO3/L)	190	200	222
3	Na% (%)	31	35	34
4	RSC (-)	0.1	0.0	0.0
5	SAR (-)	1.3	1.5	1.6
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	21/11/2017	04/12/2017	11/12/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	20.31	2.330
2	Colour_Cod (-)		Clear	Clear
3	EC_GEN (µmho/cm)		659	623
4	Odour_Code (-)		odour free	odour free
5	pH_GEN (pH units)		8.0	8.0
6	TDS (mg/L)		446	364
7	Temp (deg C)		25.5	25.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	0.0
2	ALK-TOT (mgCaCO3/L)		223	227
3	B (mg/L)		0.01	0.00
4	Ca (mg/L)		45	45
5	Cl (mg/L)		69.2	63.9
6	CO3 (mg/L)		0.0	0.0
7	F (mg/L)		0.65	0.78
8	Fe (mg/L)		0.0	0.0
9	HCO3 (mg/L)		272	277
10	K (mg/L)		3.1	3.0
11	Mg (mg/L)		31.2	29.3
12	Na (mg/L)		55.0	49.0
13	NO2+NO3 (mg N/L)		0.59	0.31
14	NO2-N (mgN/L)		0.00	0.01
15	NO3-N (mgN/L)		0.59	0.29
16	o-PO4-P (mg P/L)		0.031	1.519
17	SiO2 (mg/L)		13.1	9.2
18	SO4 (mg/L)		25.4	19.7
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		2.6	1.8
2	DO (mg/L)		6.4	6.0
3	DO_SAT% (%)		78	73
	TRACE & TOXIC			
1	As (µg/L)		4.0	
2	Cd (µg/L)		2.8	
3	Cr (µg/L)		5.1	
4	Cu (µg/L)		1.3	
5	Ni (µg/L)		5.4	
6	Pb (µg/L)		0.3	
7	Zn (µg/L)		4.6	
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		113	113
2	HAR_Total (mgCaCO3/L)		243	235
3	Na% (%)		33	31
4	RSC (-)		0.0	0.0
5	SAR (-)		1.5	1.4
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	21/12/2017	01/01/2018	11/01/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_GEN (µmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SiO2 (mg/L)			
18	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	DO (mg/L)			
3	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	22/01/2018	01/02/2018	12/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SiO2 (mg/L)			
18	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	DO (mg/L)			
3	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	21/02/2018	01/03/2018	12/03/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_GEN (µmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SiO2 (mg/L)			
18	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	DO (mg/L)			
3	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	21/03/2018	02/04/2018	11/04/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_GEN (µmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SiO2 (mg/L)			
18	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	DO (mg/L)			
3	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	21/04/2018	01/05/2018	11/05/2018	21/05/2018
		A	A	A	A
	PHYSICAL				
1	Q (cumec)	No Flow	No Flow	No Flow	No Flow
2	Colour_Cod (-)				
3	EC_GEN (µmho/cm)				
4	Odour_Code (-)				
5	pH_GEN (pH units)				
6	TDS (mg/L)				
7	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	B (mg/L)				
4	Ca (mg/L)				
5	Cl (mg/L)				
6	CO3 (mg/L)				
7	F (mg/L)				
8	Fe (mg/L)				
9	HCO3 (mg/L)				
10	K (mg/L)				
11	Mg (mg/L)				
12	Na (mg/L)				
13	NO2+NO3 (mg N/L)				
14	NO2-N (mgN/L)				
15	NO3-N (mgN/L)				
16	o-PO4-P (mg P/L)				
17	SiO2 (mg/L)				
18	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
2	DO (mg/L)				
3	DO_SAT% (%)				
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

Water Quality Summary for the period : 2017-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

Sub-Division : Upper Cauvery SD, Bangalore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	359.1	0.000	5.814
2	EC_GEN (µmho/cm)	7	659	487	576
3	pH_GEN (pH units)	7	8.0	7.8	7.9
4	TDS (mg/L)	7	446	298	361
5	Temp (deg C)	7	28.0	25.0	26.9
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	7	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	7	227	157	193
3	B (mg/L)	7	0.58	0.00	0.19
4	Ca (mg/L)	7	45	36	40
5	Cl (mg/L)	7	76.3	48.3	61.7
6	CO3 (mg/L)	7	0.0	0.0	0
7	F (mg/L)	7	0.78	0.27	0.5
8	Fe (mg/L)	7	0.1	0.0	0
9	HCO3 (mg/L)	7	277	192	236
10	K (mg/L)	7	5.6	3.0	4
11	Mg (mg/L)	7	31.2	20.8	26.2
12	Na (mg/L)	7	55.0	33.0	45.6
13	NO2+NO3 (mg N/L)	7	1.62	0.31	1.02
14	NO2-N (mgN/L)	7	0.04	0.00	0.02
15	NO3-N (mgN/L)	7	1.60	0.29	1
16	o-PO4-P (mg P/L)	7	1.519	0.031	0.292
17	SiO2 (mg/L)	7	27.4	9.2	15.9
18	SO4 (mg/L)	7	40.7	19.7	27
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	7	3.2	0.8	2
2	DO (mg/L)	7	6.4	4.0	5.2
3	DO_SAT% (%)	7	78	51	65
	TRACE & TOXIC				
1	As (µg/L)	1	4.0	4.0	4
2	Cd (µg/L)	1	2.8	2.8	2.8
3	Cr (µg/L)	1	5.1	5.1	5.1
4	Cu (µg/L)	1	1.3	1.3	1.3
5	Ni (µg/L)	1	5.4	5.4	5.4
6	Pb (µg/L)	1	0.3	0.3	0.3
7	Zn (µg/L)	1	4.6	4.6	4.6
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	7	113	89	100
2	HAR_Total (mgCaCO3/L)	7	243	184	209
3	Na% (%)	7	35	27	32
4	RSC (-)	7	0.1	0.0	0
5	SAR (-)	7	1.6	1.1	1.4
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	27.93	24.54	14.28	44.46	37.57
2	EC_GEN (µmho/cm)	360	557	580	542	567
3	pH_GEN (pH units)	8.0	8.1	8.0	8.0	7.6
4	TDS (mg/L)					
5	Temp (deg C)	24.0	25.4	26.0	27.2	26.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	3.1	0.0
2	ALK-TOT (mgCaCO3/L)	111	182	221	228	230
3	B (mg/L)	0.08	0.34	0.09	0.07	0.07
4	Ca (mg/L)	26	32	32	38	41
5	Cl (mg/L)	42.2	61.9	39.3	31.1	34.4
6	CO3 (mg/L)	0.0	0.0	0.0	3.7	0.0
7	F (mg/L)	0.04	0.34	0.43	0.50	0.66
8	Fe (mg/L)	0.0	0.1	0.1	0.0	0.0
9	HCO3 (mg/L)	136	222	270	270	283
10	K (mg/L)	0.5	4.5	3.3	2.9	3.8
11	Mg (mg/L)	12.1	20.0	21.6	21.4	20.6
12	Na (mg/L)	32.5	50.9	62.3	48.7	49.8
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	0.01	0.60	0.62	0.86	2.08
15	NO2-N (mgN/L)	0.00	0.02	0.02	0.02	0.01
16	NO3-N (mgN/L)	0.01	0.58	0.61	0.84	2.07
17	o-PO4-P (mg P/L)	0.000	0.010	0.066	0.058	0.109
18	SiO2 (mg/L)	11.6	20.0	17.5	20.3	22.2
19	SO4 (mg/L)	0.3	12.2	18.0	10.5	14.5
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.2	1.5	1.2		0.9
2	COD (mg/L)					
3	DO (mg/L)	6.2	4.9	5.3	5.7	5.1
4	DO_SAT% (%)	74	59	65	71	64
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	65	80	80	94	103
2	HAR_Total (mgCaCO3/L)	115	163	170	184	185
3	Na% (%)	38	40	43	36	36
4	RSC (-)	0.0	0.5	1.1	0.9	0.9
5	SAR (-)	1.3	1.7	2.1	1.6	1.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	7.475	13.34	28.30	19.85	
2	EC_GEN (µmho/cm)	661	625	620	624	
3	pH_GEN (pH units)	7.8	7.6	7.7	7.8	
4	TDS (mg/L)					
5	Temp (deg C)	27.8	26.8	29.0	28.5	
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	4.5	
2	ALK-TOT (mgCaCO3/L)	264	237	217	241	
3	B (mg/L)		0.05	0.18	0.64	
4	Ca (mg/L)	41	55	51	39	
5	Cl (mg/L)	43.1	29.8	44.5	43.8	
6	CO3 (mg/L)	0.0	0.0	0.0	5.4	
7	F (mg/L)	0.60	0.55	0.53	0.69	
8	Fe (mg/L)		0.0	0.1	0.1	
9	HCO3 (mg/L)	322	289	264	283	
10	K (mg/L)	3.8	3.5	8.1	3.4	
11	Mg (mg/L)	24.0	17.0	19.4	27.0	
12	Na (mg/L)	66.3	57.5	52.2	55.4	
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	1.37	2.23	1.88	0.88	
15	NO2-N (mgN/L)	0.02	0.03	0.04	0.02	
16	NO3-N (mgN/L)	1.35	2.20	1.84	0.86	
17	o-PO4-P (mg P/L)		0.072	0.065	0.264	
18	SiO2 (mg/L)		11.2	14.5	24.5	
19	SO4 (mg/L)	12.4	35.1	31.6	23.5	
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.4	1.3	1.1	0.8	
2	COD (mg/L)					
3	DO (mg/L)	5.0	3.3	3.4	4.1	
4	DO_SAT% (%)	64	41	44	53	
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)	6.5				
4	Cu (µg/L)	34.0				
5	Ni (µg/L)	2.8				
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	103	138	128	98	
2	HAR_Total (mgCaCO3/L)	203	209	209	210	
3	Na% (%)	41	37	34	36	
4	RSC (-)	1.2	0.6	0.2	0.6	
5	SAR (-)	2.0	1.7	1.6	1.7	
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	28.18	35.76	23.71	18.41	28.37
2	EC_GEN (µmho/cm)	512	322	522	505	507
3	pH_GEN (pH units)	7.9	8.2	8.0	8.0	8.0
4	TDS (mg/L)	325				
5	Temp (deg C)	27.3	23.5	24.4	24.3	24.4
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	174	103	221	220	217
3	B (mg/L)	0.35	0.00	0.16	0.10	0.08
4	Ca (mg/L)	38	26	39	38	38
5	Cl (mg/L)	51.9	36.0	31.2	30.1	31.0
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.35	0.11	0.47	0.45	0.48
8	Fe (mg/L)	0.0	0.3	0.1	0.0	0.0
9	HCO3 (mg/L)	213	126	269	268	265
10	K (mg/L)	4.9	1.8	2.2	2.0	2.4
11	Mg (mg/L)	22.0	10.0	19.0	19.4	19.9
12	Na (mg/L)	37.0	25.7	47.2	48.0	44.5
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	1.41	0.01	0.60	0.59	0.85
15	NO2-N (mgN/L)	0.03	0.00	0.02	0.03	0.00
16	NO3-N (mgN/L)	1.38	0.01	0.57	0.56	0.84
17	o-PO4-P (mg P/L)	0.124	0.043	0.054	0.028	0.052
18	SiO2 (mg/L)	15.8	14.6	20.1	18.8	18.7
19	SO4 (mg/L)	24.8	0.1	10.8	10.2	8.9
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.2	1.1	1.6	0.9	1.1
2	COD (mg/L)					
3	DO (mg/L)	4.5	4.9	6.1	6.1	5.6
4	DO_SAT% (%)	57	57	73	73	67
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	95	65	97	95	95
2	HAR_Total (mgCaCO3/L)	187	107	176	176	178
3	Na% (%)	30	34	37	37	35
4	RSC (-)	0.0	0.0	0.9	0.9	0.8
5	SAR (-)	1.2	1.1	1.6	1.6	1.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	31.45	61.31	16.84	9.253	33.61
2	EC_GEN (µmho/cm)	510	539	567	566	590
3	pH_GEN (pH units)	7.5	7.7	7.7	8.0	7.9
4	TDS (mg/L)					302
5	Temp (deg C)	21.3	23.8	26.0	25.4	25.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	2.2	0.0
2	ALK-TOT (mgCaCO3/L)	223	229	241	239	257
3	B (mg/L)	0.00		0.08	0.27	0.25
4	Ca (mg/L)	40	46	40	46	47
5	Cl (mg/L)	31.0	30.8	29.5	30.4	33.0
6	CO3 (mg/L)	0.0	0.0	0.0	2.7	0.0
7	F (mg/L)		0.51	0.49	0.41	0.47
8	Fe (mg/L)	0.3		0.1	0.0	0.1
9	HCO3 (mg/L)	268	279	294	287	313
10	K (mg/L)	3.2	3.3	6.0	6.5	2.5
11	Mg (mg/L)	17.5	17.2	15.3	22.1	19.4
12	Na (mg/L)	43.4	44.1	61.0	40.5	49.4
13	NH3-N (mg N/L)				0.00	
14	NO2+NO3 (mg N/L)	1.43	1.44	1.66	1.77	1.00
15	NO2-N (mgN/L)	0.03	0.02	0.01	0.12	0.01
16	NO3-N (mgN/L)	1.40	1.42	1.65	1.64	0.99
17	o-PO4-P (mg P/L)	0.083		0.098	0.065	0.313
18	SiO2 (mg/L)	17.1		23.6	13.4	21.6
19	SO4 (mg/L)	10.1	12.4	20.7	18.8	14.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.6	1.1	0.9	1.5	1.2
2	COD (mg/L)					
3	DO (mg/L)	5.6	5.0	4.8	5.4	5.9
4	DO_SAT% (%)	64	59	59	66	71
	TRACE & TOXIC					
1	As (µg/L)	0.0				
2	Cd (µg/L)	0.3			0.1	
3	Cr (µg/L)	2.6			4.7	
4	Cu (µg/L)	40.9			4.0	
5	Ni (µg/L)	2.6			5.3	
6	Pb (µg/L)	0.4			3.5	
7	Zn (µg/L)				8.3	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	100	115	99	116	117
2	HAR_Total (mgCaCO3/L)	175	186	163	208	198
3	Na% (%)	35	34	44	29	35
4	RSC (-)	1.0	0.9	1.6	0.7	1.2
5	SAR (-)	1.4	1.4	2.1	1.2	1.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)		10.07	6.116	1.274	13.97
2	EC_GEN (µmho/cm)		624	472	709	567
3	pH_GEN (pH units)		8.0	7.9	8.0	7.9
4	TDS (mg/L)		388			
5	Temp (deg C)		26.6	25.8	25.8	27.7
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)		207	153	279	231
3	B (mg/L)		0.07	0.05	0.13	0.10
4	Ca (mg/L)		41	34	33	34
5	Cl (mg/L)		69.0	49.9	47.1	34.0
6	CO3 (mg/L)		0.0	0.0	0.0	0.0
7	F (mg/L)		0.61	0.65	0.63	0.60
8	Fe (mg/L)		0.0	0.2	0.1	0.1
9	HCO3 (mg/L)		253	187	340	281
10	K (mg/L)		3.3	1.6	4.8	3.7
11	Mg (mg/L)		29.3	18.6	27.5	23.7
12	Na (mg/L)		52.0	32.9	85.4	58.1
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)		0.73	0.46	0.73	0.70
15	NO2-N (mgN/L)		0.01	0.00	0.00	0.02
16	NO3-N (mgN/L)		0.72	0.46	0.72	0.68
17	o-PO4-P (mg P/L)		0.419	0.072	0.014	0.059
18	SiO2 (mg/L)		16.0	17.6	25.5	24.7
19	SO4 (mg/L)		28.7	0.4	22.6	12.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		1.8	2.4	2.4	1.8
2	COD (mg/L)					
3	DO (mg/L)		5.6	3.9	4.2	4.2
4	DO_SAT% (%)		70	47	51	53
	TRACE & TOXIC					
1	As (µg/L)		4.0	4.5	23.8	
2	Cd (µg/L)		2.8	1.2		
3	Cr (µg/L)		5.1		3.5	
4	Cu (µg/L)		1.3		5.0	
5	Ni (µg/L)		5.4		2.2	
6	Pb (µg/L)		0.3	3.1		
7	Zn (µg/L)		4.6	35.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		103	84	83	85
2	HAR_Total (mgCaCO3/L)		225	161	197	184
3	Na% (%)		33	29	48	40
4	RSC (-)		0.0	0.0	1.7	1.0
5	SAR (-)		1.5	1.2	2.7	1.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	10.32	6.750	No Flow	6.354
2	EC_GEN (µmho/cm)	634	668		709
3	pH_GEN (pH units)	7.9	7.5		7.7
4	TDS (mg/L)				
5	Temp (deg C)	26.7	23.5		31.0
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0		0.0
2	ALK-TOT (mgCaCO3/L)	225	271		291
3	B (mg/L)	0.12			0.18
4	Ca (mg/L)	39	42		43
5	Cl (mg/L)	37.6	42.1		43.3
6	CO3 (mg/L)	0.0	0.0		0.0
7	F (mg/L)	0.67	0.57		0.61
8	Fe (mg/L)	0.0			0.1
9	HCO3 (mg/L)	284	330		355
10	K (mg/L)	5.4	5.2		3.0
11	Mg (mg/L)	21.7	24.8		17.5
12	Na (mg/L)	56.2	62.0		77.3
13	NH3-N (mg N/L)				
14	NO2+NO3 (mg N/L)	1.34	1.67		2.41
15	NO2-N (mgN/L)	0.01	0.01		0.08
16	NO3-N (mgN/L)	1.32	1.67		2.33
17	o-PO4-P (mg P/L)	0.103			0.041
18	SiO2 (mg/L)	18.4			20.8
19	SO4 (mg/L)	17.5	22.6		19.2
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)		1.2		0.8
2	COD (mg/L)				
3	DO (mg/L)	5.0	3.7		1.4
4	DO_SAT% (%)	62	42		19
	TRACE & TOXIC				
1	As (µg/L)	1.7	0.9		0.5
2	Cd (µg/L)		0.2		0.0
3	Cr (µg/L)	3.0	5.5		1.1
4	Cu (µg/L)	5.3	10.0		4.8
5	Ni (µg/L)		3.5		11.4
6	Pb (µg/L)	0.2	4.4		0.9
7	Zn (µg/L)		11.0		8.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	97	106		108
2	HAR_Total (mgCaCO3/L)	188	209		181
3	Na% (%)	39	39		48
4	RSC (-)	0.9	1.3		2.2
5	SAR (-)	1.8	1.9		2.5
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.K.Halli (CCM00B9)

Division : Cauvery Division, Bangalore

Local River : Shimsa

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	No Flow	No Flow	No Flow	No Flow
2	EC_GEN (µmho/cm)				
3	pH_GEN (pH units)				
4	TDS (mg/L)				
5	Temp (deg C)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)				
2	ALK-TOT (mgCaCO3/L)				
3	B (mg/L)				
4	Ca (mg/L)				
5	Cl (mg/L)				
6	CO3 (mg/L)				
7	F (mg/L)				
8	Fe (mg/L)				
9	HCO3 (mg/L)				
10	K (mg/L)				
11	Mg (mg/L)				
12	Na (mg/L)				
13	NH3-N (mg N/L)				
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				
16	NO3-N (mgN/L)				
17	o-PO4-P (mg P/L)				
18	SiO2 (mg/L)				
19	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
2	COD (mg/L)				
3	DO (mg/L)				
4	DO_SAT% (%)				
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: KOLLEGAL	Code	: CC000R5
State	: Karnataka	District	Chamarajanagara
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: -	Sub Tributary	:
Sub-Sub Tributary	:	Local River	: Cauvery
Division	: Cauvery Division, Bangalore	Sub-Division	: Upper Cauvery SD, Bangalore
Drainage Area	: 21082 Sq. Km.	Bank	: Right
Latitude	: 12°11'21"	Longitude	: 77°06'04"
Zero of Gauge (m)	: 622.000 (m.s.l)	25/01/1971	
	Opening Date	Closing Date	
Gauge	: 25/01/1971		
Discharge	: 06/02/1971		
Sediment	: 15/03/1972		
Water Quality	: 01/06/1978		

Water Quality Datasheet for the period : 2017-2018

Station Name : Kollegal (CC000R5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	36.21	No Flow	221.8
2	Colour_Cod (-)	Clear		Light Brown
3	EC_GEN (μmho/cm)	365		143
4	Odour_Code (-)	odour free		odour free
5	pH_GEN (pH units)	7.7		7.2
6	TDS (mg/L)	216		108
7	Temp (deg C)	24.3		26.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0		0.0
2	ALK-TOT (mgCaCO3/L)	143		6
3	B (mg/L)	0.06		0.23
4	Ca (mg/L)	24		9
5	Cl (mg/L)	28.8		10.7
6	CO3 (mg/L)	0.0		0.0
7	F (mg/L)	0.25		0.10
8	Fe (mg/L)	0.1		0.0
9	HCO3 (mg/L)	175		7
10	K (mg/L)	2.3		1.8
11	Mg (mg/L)	14.3		8.4
12	Na (mg/L)	28.0		6.0
13	NO2+NO3 (mg N/L)	0.81		0.85
14	NO2-N (mgN/L)	0.00		0.00
15	NO3-N (mgN/L)	0.81		0.85
16	o-PO4-P (mg P/L)	0.000		0.103
17	SiO2 (mg/L)	14.7		12.2
18	SO4 (mg/L)	11.2		3.9
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.2		0.7
2	DO (mg/L)	4.5		5.1
3	DO_SAT% (%)	54		63
	TRACE & TOXIC			
1	As (μg/L)			1.0
2	Cd (μg/L)			2.0
3	Cr (μg/L)			11.0
4	Cu (μg/L)			3.0
5	Ni (μg/L)			
6	Pb (μg/L)			1.0
7	Zn (μg/L)			9.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	59		22
2	HAR_Total (mgCaCO3/L)	119		57
3	Na% (%)	34		18
4	RSC (-)	0.5		0.0
5	SAR (-)	1.1		0.3
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Kollegal (CC000R5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	04/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	410.4	180.3	94.93
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (µmho/cm)	153	265	403
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.4	7.6	7.6
6	TDS (mg/L)	94	150	250
7	Temp (deg C)	26.0	28.0	27.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	60	110	143
3	B (mg/L)	0.00	0.05	0.10
4	Ca (mg/L)	11	30	27
5	Cl (mg/L)	11.0	16.7	0.7
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.11	0.40	0.38
8	Fe (mg/L)	0.1	0.1	0.0
9	HCO3 (mg/L)	73	134	175
10	K (mg/L)	1.5	2.4	2.6
11	Mg (mg/L)	9.1	14.6	21.4
12	Na (mg/L)	6.1	11.0	29.0
13	NO2+NO3 (mg N/L)	0.87	0.99	0.84
14	NO2-N (mgN/L)	0.01	0.03	0.01
15	NO3-N (mgN/L)	0.85	0.97	0.83
16	o-PO4-P (mg P/L)	0.041	0.114	0.052
17	SiO2 (mg/L)	2.5	16.1	26.3
18	SO4 (mg/L)	5.6	6.8	11.6
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.6	0.6	0.4
2	DO (mg/L)	3.6	4.6	5.1
3	DO_SAT% (%)	44	59	64
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	29	75	67
2	HAR_Total (mgCaCO3/L)	66	136	156
3	Na% (%)	16	15	29
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.3	0.4	1.0
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Kollegal (CC000R5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	04/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	129.1	43.71	No Flow
2	Colour_Cod (-)	Clear	Clear	
3	EC_GEN (μmho/cm)	365	376	
4	Odour_Code (-)	odour free	odour free	
5	pH_GEN (pH units)	7.6	8.0	
6	TDS (mg/L)	206	242	
7	Temp (deg C)	25.5	24.0	
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	
2	ALK-TOT (mgCaCO3/L)	152	170	
3	B (mg/L)	0.00	0.00	
4	Ca (mg/L)	33	28	
5	Cl (mg/L)	25.6	9.6	
6	CO3 (mg/L)	0.0	0.0	
7	F (mg/L)	0.46	0.27	
8	Fe (mg/L)	0.0	0.0	
9	HCO3 (mg/L)	186	208	
10	K (mg/L)	2.2	1.8	
11	Mg (mg/L)	16.5	25.4	
12	Na (mg/L)	20.0	5.0	
13	NO2+NO3 (mg N/L)	1.12	0.99	
14	NO2-N (mgN/L)	0.01	0.01	
15	NO3-N (mgN/L)	1.11	0.98	
16	o-PO4-P (mg P/L)	0.021	0.000	
17	SiO2 (mg/L)	8.1	10.3	
18	SO4 (mg/L)	5.2	7.0	
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.9	1.3	
2	DO (mg/L)	4.7	7.0	
3	DO_SAT% (%)	57	83	
	TRACE & TOXIC			
1	As (μg/L)	3.1		
2	Cd (μg/L)	0.0		
3	Cr (μg/L)	5.5		
4	Cu (μg/L)	4.2		
5	Ni (μg/L)	2.2		
6	Pb (μg/L)	0.2		
7	Zn (μg/L)	2.4		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	83	71	
2	HAR_Total (mgCaCO3/L)	152	177	
3	Na% (%)	22	6	
4	RSC (-)	0.0	0.0	
5	SAR (-)	0.7	0.2	
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Kollegal (CC000R5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_GEN (µmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SiO2 (mg/L)			
18	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	DO (mg/L)			
3	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : Kollegal (CC000R5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

Sub-Division : Upper Cauvery SD, Bangalore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	711.2	0.000	78.31
2	EC_GEN (µmho/cm)	7	403	143	296
3	pH_GEN (pH units)	7	8.0	7.2	7.6
4	TDS (mg/L)	7	250	94	181
5	Temp (deg C)	7	28.0	24.0	25.8
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	7	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	7	170	6	112
3	B (mg/L)	7	0.23	0.00	0.06
4	Ca (mg/L)	7	33	9	23
5	Cl (mg/L)	7	28.8	0.7	14.7
6	CO3 (mg/L)	7	0.0	0.0	0
7	F (mg/L)	7	0.46	0.10	0.28
8	Fe (mg/L)	7	0.1	0.0	0.1
9	HCO3 (mg/L)	7	208	7	137
10	K (mg/L)	7	2.6	1.5	2.1
11	Mg (mg/L)	7	25.4	8.4	15.7
12	Na (mg/L)	7	29.0	5.0	15
13	NO2+NO3 (mg N/L)	7	1.12	0.81	0.93
14	NO2-N (mgN/L)	7	0.03	0.00	0.01
15	NO3-N (mgN/L)	7	1.11	0.81	0.91
16	o-PO4-P (mg P/L)	7	0.114	0.000	0.047
17	SiO2 (mg/L)	7	26.3	2.5	12.9
18	SO4 (mg/L)	7	11.6	3.9	7.3
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	7	1.3	0.4	0.8
2	DO (mg/L)	7	7.0	3.6	4.9
3	DO_SAT% (%)	7	83	44	61
	TRACE & TOXIC				
1	As (µg/L)	2	3.1	1.0	2
2	Cd (µg/L)	2	2.0	0.0	1
3	Cr (µg/L)	2	11.0	5.5	8.2
4	Cu (µg/L)	2	4.2	3.0	3.6
5	Ni (µg/L)	1	2.2	2.2	2.2
6	Pb (µg/L)	2	1.0	0.2	0.6
7	Zn (µg/L)	2	9.0	2.4	5.7
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	7	83	22	58
2	HAR_Total (mgCaCO3/L)	7	177	57	123
3	Na% (%)	7	34	6	20
4	RSC (-)	7	0.5	0.0	0.1
5	SAR (-)	7	1.1	0.2	0.6
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kollegal (CC000R5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	744.6	689.2	224.3	302.6	475.1
2	EC_GEN (µmho/cm)	405	278	268	274	261
3	pH_GEN (pH units)	7.9	8.0	8.0	7.7	7.3
4	TDS (mg/L)					
5	Temp (deg C)	25.0	26.3	25.3	23.1	23.5
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	1.1	3.1	0.0
2	ALK-TOT (mgCaCO3/L)	119	109	113	125	107
3	B (mg/L)	0.06	0.29	0.07	0.04	0.01
4	Ca (mg/L)	20	23	23	25	23
5	Cl (mg/L)	58.1	17.3	16.3	17.7	16.1
6	CO3 (mg/L)	0.0	0.0	1.4	3.7	0.0
7	F (mg/L)	0.09	0.16	0.23	0.45	0.27
8	Fe (mg/L)	0.2	0.1	0.1	0.2	0.0
9	HCO3 (mg/L)	145	133	135	145	131
10	K (mg/L)	12.5	1.7	1.5	1.6	1.8
11	Mg (mg/L)	10.7	11.7	11.3	12.2	9.9
12	Na (mg/L)	41.7	13.0	18.1	18.8	15.1
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	0.67	0.45	0.58	0.80	1.14
15	NO2-N (mgN/L)	0.00	0.01	0.01	0.04	0.01
16	NO3-N (mgN/L)	0.67	0.44	0.57	0.77	1.13
17	o-PO4-P (mg P/L)	0.320	0.031	0.031	0.033	0.031
18	SiO2 (mg/L)	3.2	16.9	15.8	15.9	14.5
19	SO4 (mg/L)	0.6	5.8	4.4	4.7	5.5
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.0	0.8	1.2		1.0
2	COD (mg/L)					
3	DO (mg/L)	5.5	5.1	5.9	5.1	4.7
4	DO_SAT% (%)	66	63	71	59	55
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	50	58	57	62	57
2	HAR_Total (mgCaCO3/L)	94	106	104	113	98
3	Na% (%)	45	21	27	26	24
4	RSC (-)	0.5	0.1	0.2	0.2	0.2
5	SAR (-)	1.9	0.6	0.8	0.7	0.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kollegal (CC000R5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	109.8	479.2	188.9	146.8	139.7
2	EC_GEN (µmho/cm)	316	191	236	275	243
3	pH_GEN (pH units)	7.9	7.3	7.6	7.6	7.2
4	TDS (mg/L)					136
5	Temp (deg C)	26.0	24.5	27.2	27.1	25.7
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	1.6	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	132	74	89	104	90
3	B (mg/L)		0.02	0.18	0.90	0.12
4	Ca (mg/L)	27	18	22	29	19
5	Cl (mg/L)	19.0	12.0	16.7	19.7	21.2
6	CO3 (mg/L)	2.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.29	0.17	0.25	0.27	
8	Fe (mg/L)		0.1	0.2	0.1	0.2
9	HCO3 (mg/L)	157	90	109	127	110
10	K (mg/L)	1.7	1.7	2.6	1.7	1.8
11	Mg (mg/L)	12.2	6.6	8.0	7.3	13.8
12	Na (mg/L)	19.8	12.8	14.6	15.7	13.7
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	1.09	1.51	1.67	1.04	0.95
15	NO2-N (mgN/L)	0.02	0.03	0.04	0.02	0.09
16	NO3-N (mgN/L)	1.08	1.48	1.63	1.02	0.86
17	o-PO4-P (mg P/L)		0.085	0.064	0.315	0.007
18	SiO2 (mg/L)		11.0	9.2	19.7	18.7
19	SO4 (mg/L)	5.7	7.4	5.9	7.5	4.8
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.7	1.4	1.9	1.3	0.9
2	COD (mg/L)					
3	DO (mg/L)	5.7	5.5	5.4	5.5	7.4
4	DO_SAT% (%)	70	66	67	69	90
	TRACE & TOXIC					
1	As (µg/L)		1.3			
2	Cd (µg/L)		0.6			
3	Cr (µg/L)	4.2	1.0			
4	Cu (µg/L)	13.1	0.9			
5	Hg (µg/L)					
6	Ni (µg/L)	1.6	10.4			
7	Pb (µg/L)		4.0			
8	Zn (µg/L)		0.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	68	44	55	72	46
2	HAR_Total (mgCaCO3/L)	119	71	88	102	104
3	Na% (%)	26	26	28	24	22
4	RSC (-)	0.3	0.1	0.1	0.1	0.0
5	SAR (-)	0.8	0.6	0.7	0.7	0.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kollegal (CC000R5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	212.2	186.0	136.3	82.60	127.3
2	EC_GEN (µmho/cm)	232	387	397	361	395
3	pH_GEN (pH units)	7.5	8.2	8.1	8.1	8.0
4	TDS (mg/L)	142				
5	Temp (deg C)	26.1	24.0	25.0	23.8	20.4
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	1.9	3.9	0.0
2	ALK-TOT (mgCaCO3/L)	80	118	175	163	174
3	B (mg/L)	0.09	0.04	0.18	0.06	0.07
4	Ca (mg/L)	18	26	32	32	32
5	Cl (mg/L)	16.8	43.0	22.2	19.9	21.3
6	CO3 (mg/L)	0.0	0.0	2.3	4.7	0.0
7	F (mg/L)	0.21	0.59	0.29	0.33	1.52
8	Fe (mg/L)	0.1	0.1	0.1	0.0	0.0
9	HCO3 (mg/L)	97	144	209	190	212
10	K (mg/L)	2.0	1.3	1.8	1.6	1.8
11	Mg (mg/L)	11.6	13.6	17.0	15.6	16.5
12	Na (mg/L)	12.8	32.7	28.5	25.4	26.1
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	0.88	0.08	0.56	0.59	0.98
15	NO2-N (mgN/L)	0.01	0.00	0.01	0.02	0.05
16	NO3-N (mgN/L)	0.87	0.08	0.55	0.57	0.93
17	o-PO4-P (mg P/L)	0.065	0.016	0.057	0.021	0.036
18	SiO2 (mg/L)	11.4	11.6	18.9	19.6	18.3
19	SO4 (mg/L)	6.9	0.3	5.9	5.2	5.9
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.8	1.0	1.6	0.8	1.3
2	COD (mg/L)					
3	DO (mg/L)	4.5	6.3	7.0	6.6	6.8
4	DO_SAT% (%)	55	74	84	77	75
	TRACE & TOXIC					
1	As (µg/L)	1.0				
2	Cd (µg/L)	2.0				
3	Cr (µg/L)	11.0				
4	Cu (µg/L)	3.0				
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)	1.0				
8	Zn (µg/L)	9.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	46	65	81	79	81
2	HAR_Total (mgCaCO3/L)	94	122	152	144	149
3	Na% (%)	21	35	29	28	27
4	RSC (-)	0.1	0.0	0.5	0.4	0.5
5	SAR (-)	0.6	1.2	1.0	0.9	0.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kollegal (CC000R5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	101.8	108.7	77.60	79.32	99.63
2	EC_GEN (µmho/cm)	382	383	405	395	440
3	pH_GEN (pH units)	7.6	7.8	7.9	8.1	8.0
4	TDS (mg/L)					227
5	Temp (deg C)	24.6	22.0	24.5	25.8	25.7
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	2.2	0.0
2	ALK-TOT (mgCaCO3/L)	167	165	179	165	191
3	B (mg/L)	0.00		0.04	0.23	0.25
4	Ca (mg/L)	32	35	33	39	40
5	Cl (mg/L)	20.9	21.4	20.7	23.9	27.0
6	CO3 (mg/L)	0.0	0.0	0.0	2.7	0.0
7	F (mg/L)		0.38	0.58	0.33	0.43
8	Fe (mg/L)	0.3		0.1	0.1	0.1
9	HCO3 (mg/L)	203	201	218	196	233
10	K (mg/L)	1.8	1.9	6.1	5.2	1.7
11	Mg (mg/L)	15.6	13.9	12.4	15.1	18.5
12	Na (mg/L)	25.1	23.9	35.9	20.8	26.5
13	NH3-N (mg N/L)					
14	NO2+NO3 (mg N/L)	1.20	1.37	1.50	1.26	0.81
15	NO2-N (mgN/L)	0.01	0.01	0.01	0.01	0.01
16	NO3-N (mgN/L)	1.19	1.36	1.49	1.25	0.80
17	o-PO4-P (mg P/L)	0.036		0.090	0.036	0.320
18	SiO2 (mg/L)	17.7		19.2	13.8	23.7
19	SO4 (mg/L)	6.0	5.4	7.0	7.9	6.8
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.8	0.9	1.1	1.1	0.7
2	COD (mg/L)					
3	DO (mg/L)	6.0	6.1	6.4	6.5	6.0
4	DO_SAT% (%)	72	69	76	80	74
	TRACE & TOXIC					
1	As (µg/L)	0.4				
2	Cd (µg/L)	0.1			0.0	
3	Cr (µg/L)	2.8			0.5	
4	Cu (µg/L)	29.6			1.8	
5	Hg (µg/L)					
6	Ni (µg/L)	3.1			3.5	
7	Pb (µg/L)	0.3			1.4	
8	Zn (µg/L)				9.8	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	80	87	83	97	100
2	HAR_Total (mgCaCO3/L)	145	145	135	160	177
3	Na% (%)	27	26	35	21	24
4	RSC (-)	0.5	0.4	0.9	0.1	0.3
5	SAR (-)	0.9	0.9	1.4	0.7	0.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kollegal (CC000R5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)		89.25	64.98	34.31	34.02
2	EC_GEN (µmho/cm)		381	365	397	374
3	pH_GEN (pH units)		7.7	8.0	8.0	8.0
4	TDS (mg/L)		233			
5	Temp (deg C)		25.5	26.8	26.0	25.2
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0	0.0	2.6	0.0
2	ALK-TOT (mgCaCO3/L)		155	115	165	162
3	B (mg/L)		0.03	0.04	0.13	0.10
4	Ca (mg/L)		29	26	31	33
5	Cl (mg/L)		12.0	39.4	23.5	20.5
6	CO3 (mg/L)		0.0	0.0	3.1	0.0
7	F (mg/L)		0.37	0.07	0.25	0.35
8	Fe (mg/L)		0.0	0.1	0.1	0.0
9	HCO3 (mg/L)		190	140	194	197
10	K (mg/L)		2.2	1.5	2.0	1.8
11	Mg (mg/L)		21.1	13.7	17.5	15.9
12	Na (mg/L)		18.0	29.3	27.9	24.1
13	NH3-N (mg N/L)					0.00
14	NO2+NO3 (mg N/L)		0.99	0.94	0.58	0.50
15	NO2-N (mgN/L)		0.01	0.00	0.00	0.01
16	NO3-N (mgN/L)		0.97	0.94	0.58	0.49
17	o-PO4-P (mg P/L)		0.024	0.070	0.014	0.034
18	SiO2 (mg/L)		14.9	2.4	18.0	20.0
19	SO4 (mg/L)		7.9	0.2	6.6	6.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		0.9	1.5	1.4	0.8
2	COD (mg/L)					
3	DO (mg/L)		5.6	7.3	5.1	6.5
4	DO_SAT% (%)		68	92	62	79
	TRACE & TOXIC					
1	As (µg/L)		3.1	11.7	24.4	
2	Cd (µg/L)		0.0	1.1		
3	Cr (µg/L)		5.4		2.1	
4	Cu (µg/L)		4.2	2.4	17.9	
5	Hg (µg/L)					
6	Ni (µg/L)		2.2			
7	Pb (µg/L)		0.2		1.8	
8	Zn (µg/L)		2.4	32.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		74	64	77	81
2	HAR_Total (mgCaCO3/L)		161	121	150	147
3	Na% (%)		19	36	29	26
4	RSC (-)		0.0	0.0	0.3	0.3
5	SAR (-)		0.6	1.2	1.0	0.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kollegal (CC000R5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	37.75	28.28		18.53
2	EC_GEN (µmho/cm)	451	390		397
3	pH_GEN (pH units)	7.8	7.7		7.8
4	TDS (mg/L)				
5	Temp (deg C)	21.0	25.3		26.8
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0		0.0
2	ALK-TOT (mgCaCO3/L)	169	164		168
3	B (mg/L)	0.08			0.06
4	Ca (mg/L)	34	32		32
5	Cl (mg/L)	27.2	24.5		22.9
6	CO3 (mg/L)	0.0	0.0		0.0
7	F (mg/L)	0.28	0.35		0.41
8	Fe (mg/L)	0.0			0.0
9	HCO3 (mg/L)	206	200		205
10	K (mg/L)	2.8	2.1		3.0
11	Mg (mg/L)	17.2	15.6		15.1
12	Na (mg/L)	28.6	24.3		26.1
13	NH3-N (mg N/L)				
14	NO2+NO3 (mg N/L)	1.50	1.55		1.13
15	NO2-N (mgN/L)	0.01	0.01		0.01
16	NO3-N (mgN/L)	1.28	1.54		1.11
17	o-PO4-P (mg P/L)	0.072			0.052
18	SiO2 (mg/L)	20.3			14.7
19	SO4 (mg/L)	8.0	7.5		9.4
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)		0.9		1.8
2	COD (mg/L)				
3	DO (mg/L)	5.7	6.3		5.2
4	DO_SAT% (%)	64	78		64
	TRACE & TOXIC				
1	As (µg/L)	1.5	1.5		
2	Cd (µg/L)	0.0	0.1		
3	Cr (µg/L)	0.9	5.8		
4	Cu (µg/L)	4.5	11.0		
5	Hg (µg/L)				
6	Ni (µg/L)		7.2		
7	Pb (µg/L)	0.2	3.9		
8	Zn (µg/L)		82.0		
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	84	80		80
2	HAR_Total (mgCaCO3/L)	156	145		143
3	Na% (%)	28	27		28
4	RSC (-)	0.3	0.4		0.5
5	SAR (-)	1.0	0.9		1.0
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kollegal (CC000R5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	23.85	28.32		
2	EC_GEN (µmho/cm)	401	415		
3	pH_GEN (pH units)	8.0	7.7		
4	TDS (mg/L)		197		
5	Temp (deg C)	27.0	27.0		
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0		
2	ALK-TOT (mgCaCO3/L)	167	167		
3	B (mg/L)	0.35	0.38		
4	Ca (mg/L)	37	35		
5	Cl (mg/L)	27.7	30.2		
6	CO3 (mg/L)	0.0	0.0		
7	F (mg/L)	0.38			
8	Fe (mg/L)	0.1	0.0		
9	HCO3 (mg/L)	204	204		
10	K (mg/L)	3.1	2.4		
11	Mg (mg/L)	14.9	17.5		
12	Na (mg/L)	24.2	24.6		
13	NH3-N (mg N/L)	0.00			
14	NO2+NO3 (mg N/L)	0.74	0.73		
15	NO2-N (mgN/L)	0.02	0.01		
16	NO3-N (mgN/L)	0.72	0.71		
17	o-PO4-P (mg P/L)	0.007	0.041		
18	SiO2 (mg/L)	15.2	19.9		
19	SO4 (mg/L)	8.8	8.4		
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	0.5	1.2		
2	COD (mg/L)				
3	DO (mg/L)	5.4	6.0		
4	DO_SAT% (%)	67	75		
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Hg (µg/L)				
6	Ni (µg/L)				
7	Pb (µg/L)				
8	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	93	88		
2	HAR_Total (mgCaCO3/L)	155	161		
3	Na% (%)	25	25		
4	RSC (-)	0.3	0.1		
5	SAR (-)	0.8	0.8		
	PESTICIDES				

HISTORY SHEET

Water Year : 2017-2018

Site : BENDRAHALLI

Code : CCN00J5

State : Karnataka

District : Chamarajanagara

Basin : Cauvery

Independent River : Cauvery

Tributary : Suvarnavathi

Sub Tributary : -

Sub-Sub Tributary :

Local River : Suvarnavathi

Division : Cauvery Division,
Bangalore

Sub-Division : Upper Cauvery SD,
Bangalore

Drainage Area : 1900 Sq. Km.

Bank : Right

Latitude : 12°00'03"

Longitude : 77°05'15"

Zero of Gauge (m) : 631.000 (m.s.l)

03/02/2004

Opening Date

Closing Date

Gauge : 03/02/2004

Discharge : 18/08/2005

Sediment :

Water Quality : 01/04/2008

Water Quality Datasheet for the period : 2017-2018

Station Name : Bendrahalli (CCN00J5)

Division : Cauvery Division, Bangalore

Local River : Suvarnavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	Dry Bed	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_GEN (μ mho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO ₃ /L)			
2	ALK-TOT (mgCaCO ₃ /L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO ₃ (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO ₃ (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO ₂ +NO ₃ (mg N/L)			
14	NO ₂ -N (mgN/L)			
15	NO ₃ -N (mgN/L)			
16	o-PO ₄ -P (mg P/L)			
17	SiO ₂ (mg/L)			
18	SO ₄ (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD ₃₋₂₇ (mg/L)			
2	DO (mg/L)			
3	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μ g/L)			
2	Cd (μ g/L)			
3	Cr (μ g/L)			
4	Cu (μ g/L)			
5	Ni (μ g/L)			
6	Pb (μ g/L)			
7	Zn (μ g/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO ₃ /L)			
2	HAR_Total (mgCaCO ₃ /L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Bendrahalli (CCN00J5)

Division : Cauvery Division, Bangalore

Local River : Suvarnavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.194	0.217	0.235
2	Colour_Cod (-)		Light Brown	Clear
3	EC_GEN (µmho/cm)		655	716
4	Odour_Code (-)		odour free	odour free
5	pH_GEN (pH units)		7.7	7.7
6	TDS (mg/L)		398	442
7	Temp (deg C)		23.5	22.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	0.0
2	ALK-TOT (mgCaCO3/L)		197	240
3	B (mg/L)		0.54	0.11
4	Ca (mg/L)		40	56
5	Cl (mg/L)		83.4	83.8
6	CO3 (mg/L)		0.0	0.0
7	F (mg/L)		0.23	0.38
8	Fe (mg/L)		0.0	0.1
9	HCO3 (mg/L)		240	293
10	K (mg/L)		5.6	5.3
11	Mg (mg/L)		30.0	25.0
12	Na (mg/L)		59.0	65.0
13	NO2+NO3 (mg N/L)		1.79	2.62
14	NO2-N (mgN/L)		0.14	0.10
15	NO3-N (mgN/L)		1.65	2.52
16	o-PO4-P (mg P/L)		0.124	0.083
17	SiO2 (mg/L)		31.0	32.5
18	SO4 (mg/L)		12.8	28.1
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		2.4	0.8
2	DO (mg/L)		3.4	4.5
3	DO_SAT% (%)		40	52
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		101	140
2	HAR_Total (mgCaCO3/L)		226	244
3	Na% (%)		36	36
4	RSC (-)		0.0	0.0
5	SAR (-)		1.7	1.8
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Bendrahalli (CCN00J5)

Division : Cauvery Division, Bangalore

Local River : Suvarnavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	04/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.921	No Flow	No Flow
2	Colour_Cod (-)	Brown		
3	EC_GEN (µmho/cm)	303		
4	Odour_Code (-)	odour free		
5	pH_GEN (pH units)	7.5		
6	TDS (mg/L)	178		
7	Temp (deg C)	23.0		
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0		
2	ALK-TOT (mgCaCO3/L)	109		
3	B (mg/L)	0.00		
4	Ca (mg/L)	21		
5	Cl (mg/L)	32.7		
6	CO3 (mg/L)	0.0		
7	F (mg/L)	0.25		
8	Fe (mg/L)	0.1		
9	HCO3 (mg/L)	133		
10	K (mg/L)	3.6		
11	Mg (mg/L)	11.9		
12	Na (mg/L)	26.0		
13	NO2+NO3 (mg N/L)	0.95		
14	NO2-N (mgN/L)	0.00		
15	NO3-N (mgN/L)	0.95		
16	o-PO4-P (mg P/L)	0.000		
17	SiO2 (mg/L)	10.5		
18	SO4 (mg/L)	5.1		
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.3		
2	DO (mg/L)	5.5		
3	DO_SAT% (%)	64		
	TRACE & TOXIC			
1	As (µg/L)	3.4		
2	Cd (µg/L)	0.0		
3	Cr (µg/L)	5.4		
4	Cu (µg/L)	7.4		
5	Ni (µg/L)	6.6		
6	Pb (µg/L)	0.2		
7	Zn (µg/L)	2.2		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	53		
2	HAR_Total (mgCaCO3/L)	103		
3	Na% (%)	35		
4	RSC (-)	0.1		
5	SAR (-)	1.1		
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Bendrahalli (CCN00J5)

Division : Cauvery Division, Bangalore

Local River : Suvarnavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	Dry Bed	Dry Bed
2	Colour_Cod (-)			
3	EC_GEN (μ mho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO ₃ /L)			
2	ALK-TOT (mgCaCO ₃ /L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO ₃ (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO ₃ (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO ₂ +NO ₃ (mg N/L)			
14	NO ₂ -N (mgN/L)			
15	NO ₃ -N (mgN/L)			
16	o-PO ₄ -P (mg P/L)			
17	SiO ₂ (mg/L)			
18	SO ₄ (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD ₃₋₂₇ (mg/L)			
2	DO (mg/L)			
3	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μ g/L)			
2	Cd (μ g/L)			
3	Cr (μ g/L)			
4	Cu (μ g/L)			
5	Ni (μ g/L)			
6	Pb (μ g/L)			
7	Zn (μ g/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO ₃ /L)			
2	HAR_Total (mgCaCO ₃ /L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : Bendrahalli (CCN00J5)

Division : Cauvery Division, Bangalore

Local River : Suvarnavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	7.662	0.000	0.229
2	EC_GEN (μmho/cm)	3	716	303	558
3	pH_GEN (pH units)	3	7.7	7.5	7.6
4	TDS (mg/L)	3	442	178	339
5	Temp (deg C)	3	23.5	22.5	23
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	3	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	3	240	109	182
3	B (mg/L)	3	0.54	0.00	0.22
4	Ca (mg/L)	3	56	21	39
5	Cl (mg/L)	3	83.8	32.7	66.6
6	CO3 (mg/L)	3	0.0	0.0	0
7	F (mg/L)	3	0.38	0.23	0.28
8	Fe (mg/L)	3	0.1	0.0	0
9	HCO3 (mg/L)	3	293	133	222
10	K (mg/L)	3	5.6	3.6	4.8
11	Mg (mg/L)	3	30.0	11.9	22.3
12	Na (mg/L)	3	65.0	26.0	50
13	NO2+NO3 (mg N/L)	3	2.62	0.95	1.79
14	NO2-N (mgN/L)	3	0.14	0.00	0.08
15	NO3-N (mgN/L)	3	2.52	0.95	1.71
16	o-PO4-P (mg P/L)	3	0.124	0.000	0.069
17	SiO2 (mg/L)	3	32.5	10.5	24.7
18	SO4 (mg/L)	3	28.1	5.1	15.3
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	3	2.4	0.8	1.5
2	DO (mg/L)	3	5.5	3.4	4.5
3	DO_SAT% (%)	3	64	40	52
	TRACE & TOXIC				
1	As (μg/L)	1	3.4	3.4	3.4
2	Cd (μg/L)	1	0.0	0.0	0
3	Cr (μg/L)	1	5.4	5.4	5.4
4	Cu (μg/L)	1	7.4	7.4	7.4
5	Ni (μg/L)	1	6.6	6.6	6.6
6	Pb (μg/L)	1	0.2	0.2	0.2
7	Zn (μg/L)	1	2.2	2.2	2.2
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	3	140	53	98
2	HAR_Total (mgCaCO3/L)	3	244	103	191
3	Na% (%)	3	36	35	36
4	RSC (-)	3	0.1	0.0	0
5	SAR (-)	3	1.8	1.1	1.6
	PESTICIDES				

Water Quality Seasonal Average for the period: 2008-2018

Station Name : Bendrahalli (CCN00J5)

Division : Cauvery Division, Bangalore

Local River : Suvarnavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2008	2009	2010	2011	2012
	PHYSICAL					
1	Q (cumec)	2.755	0.642	3.173	1.084	0.533
2	EC_GEN (µmho/cm)	652	662	350	556	443
3	pH_GEN (pH units)	7.8	7.8	7.7	7.4	7.5
4	TDS (mg/L)					
5	Temp (deg C)	25.8	23.6	21.8	16.3	24.0
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	205	278	145	195	174
2	B (mg/L)	0.32	0.10		0.06	
3	Ca (mg/L)	33	42	23	38	30
4	Cl (mg/L)	83.5	38.5	19.2	33.4	26.6
5	F (mg/L)	0.11	0.36	0.27	0.42	0.34
6	Fe (mg/L)	0.2	0.1	0.1	0.1	
7	HCO3 (mg/L)	247	339	177	280	212
8	K (mg/L)	15.0	5.6	3.7	4.4	3.9
9	Mg (mg/L)	19.2	21.4	12.2	16.1	9.7
10	Na (mg/L)	63.2	75.0	34.2	58.3	50.2
11	NO2+NO3 (mg N/L)	0.94	1.22	1.65	2.48	3.22
12	NO2-N (mgN/L)	0.01	0.05	0.01	0.07	0.22
13	NO3-N (mgN/L)	0.93	1.17	1.64	2.41	3.00
14	o-PO4-P (mg P/L)	0.041	0.095	0.052	0.049	
15	SiO2 (mg/L)	18.3	25.7	19.4	30.7	
16	SO4 (mg/L)	15.2	15.3	7.0	15.6	19.7
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					0.7
2	Cd (µg/L)					
3	Cr (µg/L)					0.7
4	Cu (µg/L)					41.1
5	Ni (µg/L)					2.9
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	83	104	58	95	76
2	HAR_Total (mgCaCO3/L)	163	193	109	162	117
3	Na% (%)	42	44	40	43	47
4	RSC (-)	0.8	1.7	0.7	1.4	1.2
5	SAR (-)	2.1	2.3	1.4	2.0	2.0
	PESTICIDES					

Water Quality Seasonal Average for the period: 2008-2018

Station Name : Bendrahalli (CCN00J5)

Division : Cauvery Division, Bangalore

Local River : Suvarnavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2013	2014	2015	2016	2017
	PHYSICAL					
1	Q (cumec)	2.491	2.079	1.463	0.896	0.217
2	EC_GEN (µmho/cm)	428	426	489	229	655
3	pH_GEN (pH units)	7.5	7.4	7.5	7.0	7.7
4	TDS (mg/L)				146	398
5	Temp (deg C)	23.8	24.0	19.8	23.0	23.5
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	182	162	191	79	197
2	B (mg/L)	0.04	0.04	0.70	0.11	0.54
3	Ca (mg/L)	32	32	35	15	40
4	Cl (mg/L)	23.8	23.6	31.7	19.5	83.4
5	F (mg/L)	0.31	0.12	0.40		0.23
6	Fe (mg/L)	0.1	0.2	0.1	0.1	0.0
7	HCO3 (mg/L)	222	198	233	96	240
8	K (mg/L)	2.4	6.7	4.4	2.6	5.6
9	Mg (mg/L)	9.2	13.6	15.1	13.9	30.0
10	Na (mg/L)	51.2	36.5	46.0	8.2	59.0
11	NO2+NO3 (mg N/L)	3.12	4.74	2.44	2.03	1.79
12	NO2-N (mgN/L)	0.04	0.01	0.09	0.05	0.14
13	NO3-N (mgN/L)	3.08	4.73	2.35	1.98	1.65
14	o-PO4-P (mg P/L)	0.052	0.052	0.276	0.687	0.124
15	SiO2 (mg/L)	12.7	13.9	26.8	15.0	31.0
16	SO4 (mg/L)	8.2	12.7	12.4	8.7	12.8
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					2.4
2	COD (mg/L)					
3	DO (mg/L)					3.4
4	DO_SAT% (%)					40
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	80	80	87	37	101
2	HAR_Total (mgCaCO3/L)	118	137	150	95	226
3	Na% (%)	48	35	40	19	36
4	RSC (-)	1.3	0.5	0.8	0.1	0.0
5	SAR (-)	2.1	1.4	1.6	0.4	1.7
	PESTICIDES					

Water Quality Seasonal Average for the period: 2008-2018

Station Name : Bendrahalli (CCN00J5)

Division : Cauvery Division, Bangalore

Local River : Suvarnavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2008-2009	2009-2010	2010-2011	2011-2012	2012-2013
	PHYSICAL					
1	Q (cumec)	2.023	0.900	1.929	1.465	1.231
2	EC_GEN (µmho/cm)	668	649	624	687	506
3	pH_GEN (pH units)	7.8	7.7	7.7	7.1	7.5
4	TDS (mg/L)					
5	Temp (deg C)	22.2	21.9	16.8	17.6	22.5
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	287	298	271	293	216
2	B (mg/L)	0.13	0.10	0.11	0.00	
3	Ca (mg/L)	48	46	43	46	38
4	Cl (mg/L)	36.2	36.5	37.7	41.2	26.9
5	F (mg/L)	0.30	0.34	0.33		0.42
6	Fe (mg/L)	0.1	0.0	0.2	0.0	
7	HCO3 (mg/L)	350	345	330	357	263
8	K (mg/L)	4.2	4.5	4.8	4.6	3.0
9	Mg (mg/L)	21.1	20.4	19.8	19.4	14.6
10	Na (mg/L)	70.6	73.0	64.5	76.0	47.4
11	NO2+NO3 (mg N/L)	0.76	1.74	2.42	3.19	2.05
12	NO2-N (mgN/L)	0.01	0.02	0.07	0.04	0.05
13	NO3-N (mgN/L)	0.75	1.72	2.35	3.15	2.00
14	o-PO4-P (mg P/L)	0.079	0.189	0.055	0.036	
15	SiO2 (mg/L)	33.6	33.0	32.2	26.5	
16	SO4 (mg/L)	11.9	12.4	17.1	14.6	9.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)				0.9	
2	Cd (µg/L)				0.3	
3	Cr (µg/L)				5.5	
4	Cu (µg/L)				49.4	
5	Ni (µg/L)				3.9	
6	Pb (µg/L)				1.0	
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	120	115	109	116	96
2	HAR_Total (mgCaCO3/L)	208	200	191	197	157
3	Na% (%)	42	43	41	45	39
4	RSC (-)	1.6	1.7	1.6	1.9	1.2
5	SAR (-)	2.1	2.2	2.0	2.3	1.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2008-2018

Station Name : Bendrahalli (CCN00J5)

Division : Cauvery Division, Bangalore

Local River : Suvarnavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
	PHYSICAL					
1	Q (cumec)	1.236	3.283	1.377		0.578
2	EC_GEN (µmho/cm)	610	543	650		510
3	pH_GEN (pH units)	7.5	7.9	7.8		7.6
4	TDS (mg/L)			401		310
5	Temp (deg C)	21.8	21.3	16.5		22.8
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	263	229	268		175
2	B (mg/L)	0.02	0.16	0.30		0.05
3	Ca (mg/L)	46	37	51		39
4	Cl (mg/L)	34.9	33.4	40.8		58.2
5	F (mg/L)	0.35	0.29	0.36		0.31
6	Fe (mg/L)	0.1	0.1	0.1		0.1
7	HCO3 (mg/L)	321	280	326		213
8	K (mg/L)	3.5	8.0	4.5		4.5
9	Mg (mg/L)	10.7	15.2	18.0		18.5
10	Na (mg/L)	72.4	51.1	66.0		45.5
11	NO2+NO3 (mg N/L)	3.05	2.30	2.91		1.79
12	NO2-N (mgN/L)	0.02	0.02	0.03		0.05
13	NO3-N (mgN/L)	3.03	2.28	2.88		1.74
14	o-PO4-P (mg P/L)	0.103	0.021	0.408		0.041
15	SiO2 (mg/L)	17.9	16.3	35.4		21.5
16	SO4 (mg/L)	13.0	10.7	18.2		16.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					1.0
2	COD (mg/L)					
3	DO (mg/L)					5.0
4	DO_SAT% (%)					58
	TRACE & TOXIC					
1	As (µg/L)					3.4
2	Cd (µg/L)		0.1			0.0
3	Cr (µg/L)		2.0			5.4
4	Cu (µg/L)		7.1			7.4
5	Ni (µg/L)		0.0			6.6
6	Pb (µg/L)		1.7			0.2
7	Zn (µg/L)		0.0			2.2
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	116	93	128		97
2	HAR_Total (mgCaCO3/L)	161	157	203		173
3	Na% (%)	48	37	40		35
4	RSC (-)	2.1	1.5	1.3		0.1
5	SAR (-)	2.5	1.7	2.0		1.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2008-2018

Station Name : Bendrahalli (CCN00J5)

Division : Cauvery Division, Bangalore

Local River : Suvarnavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer				
		Mar - May				
		2009	2010	2011	2012	2013
	PHYSICAL					
1	Q (cumec)	0.597	0.065	0.685	0.029	
2	EC_GEN (µmho/cm)	895	973	901	1004	
3	pH_GEN (pH units)	7.9	7.7	7.5	7.6	
4	TDS (mg/L)					
5	Temp (deg C)	23.8	22.0	14.3	15.0	
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	377	396	353	428	
2	B (mg/L)	0.12	0.22	0.17		
3	Ca (mg/L)	55	58	55	55	
4	Cl (mg/L)	54.8	59.7	50.4	70.1	
5	F (mg/L)	0.39	0.34	0.56	0.41	
6	Fe (mg/L)	0.2	0.1	0.0		
7	HCO3 (mg/L)	460	483	430	522	
8	K (mg/L)	8.5	11.2	5.3	14.2	
9	Mg (mg/L)	26.6	28.2	28.2	27.7	
10	Na (mg/L)	113.7	122.5	92.7	123.6	
11	NO2+NO3 (mg N/L)	1.18	1.95	3.44	3.36	
12	NO2-N (mgN/L)	0.00	0.01	0.03	0.09	
13	NO3-N (mgN/L)	1.18	1.93	3.41	3.27	
14	o-PO4-P (mg P/L)	0.072	0.072	0.052		
15	SiO2 (mg/L)	38.8	53.9	52.2		
16	SO4 (mg/L)	21.8	19.4	18.2	17.7	
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)	32.0		1.5		
2	Cd (µg/L)			0.0		
3	Cr (µg/L)	3.2		3.8		
4	Cu (µg/L)	15.4		6.5		
5	Ni (µg/L)	30.0				
6	Pb (µg/L)	2.1		0.6		
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	139	144	139	138	
2	HAR_Total (mgCaCO3/L)	249	261	256	253	
3	Na% (%)	49	49	44	50	
4	RSC (-)	2.6	2.7	2.0	3.5	
5	SAR (-)	3.1	3.3	2.5	3.4	
	PESTICIDES					

Water Quality Seasonal Average for the period: 2008-2018

Station Name : Bendrahalli (CCN00J5)

Division : Cauvery Division, Bangalore

Local River : Suvarnavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer				
		Mar - May				
		2014	2015	2016	2017	2018
	PHYSICAL					
1	Q (cumec)					
2	EC_GEN (µmho/cm)					
3	pH_GEN (pH units)					
4	TDS (mg/L)					
5	Temp (deg C)					
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)					
2	B (mg/L)					
3	Ca (mg/L)					
4	Cl (mg/L)					
5	F (mg/L)					
6	Fe (mg/L)					
7	HCO3 (mg/L)					
8	K (mg/L)					
9	Mg (mg/L)					
10	Na (mg/L)					
11	NO2+NO3 (mg N/L)					
12	NO2-N (mgN/L)					
13	NO3-N (mgN/L)					
14	o-PO4-P (mg P/L)					
15	SiO2 (mg/L)					
16	SO4 (mg/L)					
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)					
2	HAR_Total (mgCaCO3/L)					
3	Na% (%)					
4	RSC (-)					
5	SAR (-)					
	PESTICIDES					

HISTORY SHEET

		Water Year	: 2017-2018
Site	: T.NARASIPUR	Code	: CCP00B1
State	: Karnataka	District	Mysore
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Kabini	Sub Tributary	:
Sub-Sub Tributary	:	Local River	: Kabini
Division	: Cauvery Division, Bangalore	Sub-Division	: Upper Cauvery SD, Bangalore
Drainage Area	: 7000 Sq. Km.	Bank	: Right
Latitude	: 12°14'00"	Longitude	: 76°50'00"
Zero of Gauge (m)	: 635.000 (m.s.l)	01/02/1971	
	Opening Date	Closing Date	
Gauge	: 01/02/1971		
Discharge	: 12/03/1971		
Sediment	: 20/03/1972		
Water Quality	: 01/06/1978		

Water Quality Datasheet for the period : 2017-2018

Station Name : T.Narasipur (CCP00B1)

Division : Cauvery Division, Bangalore

Local River : Kabini

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	143.5
2	Colour_Cod (-)			Clear
3	EC_GEN (μmho/cm)			96
4	Odour_Code (-)			odour free
5	pH_GEN (pH units)			7.0
6	TDS (mg/L)			84
7	Temp (deg C)			27.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			0.0
2	ALK-TOT (mgCaCO3/L)			28
3	B (mg/L)			0.09
4	Ca (mg/L)			6
5	Cl (mg/L)			8.9
6	CO3 (mg/L)			0.0
7	F (mg/L)			0.06
8	Fe (mg/L)			0.0
9	HCO3 (mg/L)			34
10	K (mg/L)			2.2
11	Mg (mg/L)			5.3
12	Na (mg/L)			5.0
13	NO2+NO3 (mg N/L)			0.98
14	NO2-N (mgN/L)			0.00
15	NO3-N (mgN/L)			0.98
16	o-PO4-P (mg P/L)			0.155
17	SiO2 (mg/L)			4.0
18	SO4 (mg/L)			8.7
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			0.5
2	COD (mg/L)			
3	DO (mg/L)			3.9
4	DO_SAT% (%)			49
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (μg/L)			1.0
2	Cd (μg/L)			0.0
3	Cr (μg/L)			15.0
4	Cu (μg/L)			2.0
5	Ni (μg/L)			
6	Pb (μg/L)			2.0
7	Zn (μg/L)			9.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			16
2	HAR_Total (mgCaCO3/L)			38
3	Na% (%)			21
4	RSC (-)			0.0
5	SAR (-)			0.4
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T.Narasipur (CCP00B1)

Division : Cauvery Division, Bangalore

Local River : Kabini

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	04/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	147.6	115.3	38.20
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (µmho/cm)	133	204	398
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.4	7.5	7.6
6	TDS (mg/L)	92	138	226
7	Temp (deg C)	26.0	27.5	27.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	52	79	147
3	B (mg/L)	0.02	0.37	0.10
4	Ca (mg/L)	13	18	28
5	Cl (mg/L)	9.2	13.1	37.3
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.10	0.10	0.38
8	Fe (mg/L)	0.2	0.3	0.1
9	HCO3 (mg/L)	63	96	180
10	K (mg/L)	1.8	2.3	2.6
11	Mg (mg/L)	6.1	10.0	19.6
12	Na (mg/L)	6.4	9.0	26.0
13	NO2+NO3 (mg N/L)	0.94	1.06	0.91
14	NO2-N (mgN/L)	0.01	0.01	0.01
15	NO3-N (mgN/L)	0.92	1.05	0.90
16	o-PO4-P (mg P/L)	0.000	0.062	0.093
17	SiO2 (mg/L)	2.1	13.3	26.3
18	SO4 (mg/L)	5.5	10.8	14.0
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.5	0.8	1.1
2	COD (mg/L)			
3	DO (mg/L)	4.2	4.6	3.9
4	DO_SAT% (%)	52	58	49
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	32	45	70
2	HAR_Total (mgCaCO3/L)	57	87	152
3	Na% (%)	19	18	27
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.4	0.4	0.9
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T.Narasipur (CCP00B1)

Division : Cauvery Division, Bangalore

Local River : Kabini

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	04/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	45.02	No Flow	No Flow
2	Colour_Cod (-)	Clear		
3	EC_GEN (µmho/cm)	342		
4	Odour_Code (-)	odour free		
5	pH_GEN (pH units)	7.3		
6	TDS (mg/L)	200		
7	Temp (deg C)	27.0		
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0		
2	ALK-TOT (mgCaCO3/L)	141		
3	B (mg/L)	0.00		
4	Ca (mg/L)	30		
5	Cl (mg/L)	23.8		
6	CO3 (mg/L)	0.0		
7	F (mg/L)	0.44		
8	Fe (mg/L)	0.1		
9	HCO3 (mg/L)	172		
10	K (mg/L)	3.2		
11	Mg (mg/L)	17.4		
12	Na (mg/L)	16.0		
13	NO2+NO3 (mg N/L)	1.12		
14	NO2-N (mgN/L)	0.01		
15	NO3-N (mgN/L)	1.11		
16	o-PO4-P (mg P/L)	0.041		
17	SiO2 (mg/L)	9.0		
18	SO4 (mg/L)	5.3		
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.6		
2	COD (mg/L)			
3	DO (mg/L)	4.0		
4	DO_SAT% (%)	50		
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)	3.4		
2	Cd (µg/L)	0.6		
3	Cr (µg/L)	6.3		
4	Cu (µg/L)	6.9		
5	Ni (µg/L)	0.9		
6	Pb (µg/L)	0.1		
7	Zn (µg/L)	0.1		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	76		
2	HAR_Total (mgCaCO3/L)	148		
3	Na% (%)	19		
4	RSC (-)	0.0		
5	SAR (-)	0.6		
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : T.Narasipur (CCP00B1)

Division : Cauvery Division, Bangalore

Local River : Kabini

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/03/2018	01/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	10.16	20.87	24.15
2	Colour_ Cod (-)	Clear	Clear	Clear
3	EC_GEN (µmho/cm)	340	387	307
4	Odour_ Code (-)	odour free	odour free	odour free
5	pH_ GEN (pH units)	7.4	7.5	7.5
6	TDS (mg/L)	190	252	180
7	Temp (deg C)	26.5	26.0	26.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	124	149	42
3	B (mg/L)	0.00	0.03	0.16
4	Ca (mg/L)	24	32	1
5	Cl (mg/L)	28.4	33.7	7.8
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.17	0.44	0.21
8	Fe (mg/L)	0.0	0.0	0.1
9	HCO3 (mg/L)	151	181	51
10	K (mg/L)	2.3	1.9	1.4
11	Mg (mg/L)	14.8	15.8	0.5
12	Na (mg/L)	22.0	25.0	9.0
13	NO2+NO3 (mg N/L)	0.83	0.43	0.24
14	NO2-N (mgN/L)	0.00	0.01	0.00
15	NO3-N (mgN/L)	0.83	0.42	0.24
16	o-PO4-P (mg P/L)	0.176	0.062	0.010
17	SiO2 (mg/L)	15.5	18.3	17.9
18	SO4 (mg/L)	21.6	12.3	0.6
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	2.4	2.4	1.0
2	COD (mg/L)		15.0	20.0
3	DO (mg/L)	5.6	3.7	3.0
4	DO_ SAT% (%)	69	46	37
5	FCol-MPN (MPN/100mL)			280
6	Tcol-MPN (MPN/100mL)			700
	TRACE & TOXIC			
1	As (µg/L)		1.0	
2	Cd (µg/L)		0.0	
3	Cr (µg/L)		0.5	
4	Cu (µg/L)		0.3	
5	Ni (µg/L)		0.7	
6	Pb (µg/L)		1.2	
7	Zn (µg/L)		0.3	
	CHEMICAL INDICES			
1	HAR_ Ca (mgCaCO3/L)	60	79	2
2	HAR_ Total (mgCaCO3/L)	121	145	4
3	Na% (%)	28	27	76
4	RSC (-)	0.1	0.1	0.8
5	SAR (-)	0.9	0.9	1.9
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : T.Narasipur (CCP00B1)

Division : Cauvery Division, Bangalore

Local River : Kabini

Sub-Division : Upper Cauvery SD, Bangalore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	268.8	0.000	47.30
2	EC_ GEN (µmho/cm)	8	398	96	276
3	pH_ GEN (pH units)	8	7.6	7.0	7.4
4	TDS (mg/L)	8	252	84	170
5	Temp (deg C)	8	27.5	26.0	26.8
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	8	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	8	149	28	95
3	B (mg/L)	8	0.37	0.00	0.1
4	Ca (mg/L)	8	32	1	19
5	Cl (mg/L)	8	37.3	7.8	20.3
6	CO3 (mg/L)	8	0.0	0.0	0
7	F (mg/L)	8	0.44	0.06	0.24
8	Fe (mg/L)	8	0.3	0.0	0.1
9	HCO3 (mg/L)	8	181	34	116
10	K (mg/L)	8	3.2	1.4	2.2
11	Mg (mg/L)	8	19.6	0.5	11.2
12	Na (mg/L)	8	26.0	5.0	14.8
13	NO2+NO3 (mg N/L)	8	1.12	0.24	0.81
14	NO2-N (mgN/L)	8	0.01	0.00	0.01
15	NO3-N (mgN/L)	8	1.11	0.24	0.81
16	o-PO4-P (mg P/L)	8	0.176	0.000	0.075
17	SiO2 (mg/L)	8	26.3	2.1	13.3
18	SO4 (mg/L)	8	21.6	0.6	9.8
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	8	2.4	0.5	1.4
2	COD (mg/L)	2	20.0	15.0	17.5
3	DO (mg/L)	8	5.6	3.0	4.1
4	DO_ SAT% (%)	8	69	37	51
5	Fcol-MPN (MPN/100mL)	1	280	280	280
6	Tcol-MPN (MPN/100mL)	1	700	700	700
	TRACE & TOXIC				
1	As (µg/L)	3	3.4	1.0	1.8
2	Cd (µg/L)	3	0.6	0.0	0.2
3	Cr (µg/L)	3	15.0	0.5	7.3
4	Cu (µg/L)	3	6.9	0.3	3.1
5	Ni (µg/L)	2	0.9	0.7	0.8
6	Pb (µg/L)	3	2.0	0.1	1.1
7	Zn (µg/L)	3	9.0	0.1	3.1
	CHEMICAL INDICES				
1	HAR_ Ca (mgCaCO3/L)	8	79	2	47
2	HAR_ Total (mgCaCO3/L)	8	152	4	94
3	Na% (%)	8	76	18	29
4	RSC (-)	8	0.8	0.0	0.1
5	SAR (-)	8	1.9	0.4	0.8
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.Narasipur (CCP00B1)

Division : Cauvery Division, Bangalore

Local River : Kabini

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	380.6	251.1	104.0	118.2	226.9
2	EC_GEN (µmho/cm)	343	264	253	271	232
3	pH_GEN (pH units)	8.0	7.9	7.9	7.7	7.3
4	TDS (mg/L)					
5	Temp (deg C)	24.3	27.6	26.1	27.0	26.8
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	62	98	110	112	96
3	B (mg/L)	0.07	0.26	0.04	0.04	0.06
4	Ca (mg/L)	13	21	21	20	19
5	Cl (mg/L)	74.0	19.9	13.6	16.9	13.8
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.19	0.22	0.21	0.20	0.25
8	Fe (mg/L)	0.2	0.2	0.1	0.0	0.1
9	HCO3 (mg/L)	75	120	134	136	117
10	K (mg/L)	1.6	2.0	1.7	1.8	1.8
11	Mg (mg/L)	6.2	11.1	11.3	12.8	9.7
12	Na (mg/L)	52.8	15.3	15.9	15.2	14.4
13	NO2+NO3 (mg N/L)	0.14	0.54	0.68	0.84	1.18
14	NO2-N (mgN/L)	0.00	0.01	0.02	0.02	0.01
15	NO3-N (mgN/L)	0.14	0.53	0.65	0.78	1.17
16	o-PO4-P (mg P/L)	0.062	0.010	0.062	0.033	0.023
17	SiO2 (mg/L)	3.9	21.3	17.0	15.8	16.1
18	SO4 (mg/L)	0.2	4.0	4.3	4.2	4.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.9	1.4	1.0		0.8
2	COD (mg/L)					
3	DO (mg/L)	5.7	5.5	5.7	5.4	5.4
4	DO_SAT% (%)	68	69	71	67	67
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	31	53	53	51	46
2	HAR_Total (mgCaCO3/L)	57	99	100	105	87
3	Na% (%)	66	24	25	24	25
4	RSC (-)	0.1	0.1	0.2	0.2	0.2
5	SAR (-)	3.1	0.7	0.7	0.6	0.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.Narasipur (CCP00B1)

Division : Cauvery Division, Bangalore

Local River : Kabini

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	71.09	195.3	83.04	84.78	46.87
2	EC_GEN (µmho/cm)	223	194	210	247	248
3	pH_GEN (pH units)	7.7	7.3	7.4	7.5	7.1
4	TDS (mg/L)					150
5	Temp (deg C)	26.7	25.9	25.9	26.3	26.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	89	78	76	96	85
3	B (mg/L)		0.03	0.15	0.70	0.12
4	Ca (mg/L)	17	17	19	21	17
5	Cl (mg/L)	13.6	11.0	16.8	17.0	22.5
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.19	0.18	0.21	1.08	
8	Fe (mg/L)		0.3	0.2	0.2	0.2
9	HCO3 (mg/L)	109	95	92	117	104
10	K (mg/L)	1.8	1.7	2.3	1.9	2.1
11	Mg (mg/L)	9.2	7.8	8.9	10.1	14.4
12	Na (mg/L)	14.4	11.8	10.7	13.4	10.0
13	NO2+NO3 (mg N/L)	1.06	1.61	1.57	0.88	2.02
14	NO2-N (mgN/L)	0.01	0.06	0.06	0.06	0.00
15	NO3-N (mgN/L)	1.05	1.56	1.52	0.83	2.02
16	o-PO4-P (mg P/L)		0.054	0.043	0.194	0.007
17	SiO2 (mg/L)		12.3	10.9	17.8	21.4
18	SO4 (mg/L)	4.4	6.1	5.1	5.4	5.9
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.9	0.3	1.5	1.1	0.4
2	COD (mg/L)					
3	DO (mg/L)	5.9	5.5	5.6	5.5	8.0
4	DO_SAT% (%)	74	67	69	68	99
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)		6.2			
2	Cd (µg/L)		0.1			
3	Cr (µg/L)	9.0	0.8			
4	Cu (µg/L)	38.5	0.4			
5	Hg (µg/L)					
6	Ni (µg/L)	1.3	9.1			
7	Pb (µg/L)		0.0			
8	Zn (µg/L)		0.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	44	43	46	54	42
2	HAR_Total (mgCaCO3/L)	82	75	84	96	102
3	Na% (%)	27	24	23	22	17
4	RSC (-)	0.2	0.1	0.0	0.0	0.0
5	SAR (-)	0.7	0.6	0.5	0.6	0.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.Narasipur (CCP00B1)

Division : Cauvery Division, Bangalore

Local River : Kabini

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	135.5	60.48	44.68	34.46	65.98
2	EC_GEN (µmho/cm)	144	368	432	435	450
3	pH_GEN (pH units)	7.3	8.2	8.0	8.1	8.0
4	TDS (mg/L)	105				
5	Temp (deg C)	26.8	23.8	24.0	25.0	26.1
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	1.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	53	103	198	202	207
3	B (mg/L)	0.16	0.03	0.12	0.05	0.05
4	Ca (mg/L)	12	19	33	33	34
5	Cl (mg/L)	10.4	47.9	19.2	21.8	22.8
6	CO3 (mg/L)	0.0	0.0	1.2	0.0	0.0
7	F (mg/L)	0.08	0.08	0.32	0.39	0.41
8	Fe (mg/L)	0.2	0.0	0.1	0.0	0.1
9	HCO3 (mg/L)	64	126	239	247	252
10	K (mg/L)	2.1	1.2	2.0	2.0	2.3
11	Mg (mg/L)	7.1	14.6	20.9	21.1	21.6
12	Na (mg/L)	6.8	33.5	29.3	32.2	31.1
13	NO2+NO3 (mg N/L)	0.99	0.13	0.53	0.70	1.04
14	NO2-N (mgN/L)	0.01	0.06	0.01	0.01	0.03
15	NO3-N (mgN/L)	0.99	0.07	0.53	0.69	1.01
16	o-PO4-P (mg P/L)	0.072	0.041	0.072	0.049	0.049
17	SiO2 (mg/L)	6.5	2.9	22.1	24.9	24.0
18	SO4 (mg/L)	8.3	3.1	5.3	5.0	6.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.9	1.4	1.4	1.0	0.7
2	COD (mg/L)					
3	DO (mg/L)	4.2	6.0	6.3	6.3	5.6
4	DO_SAT% (%)	53	71	74	77	69
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)	1.0				
2	Cd (µg/L)	0.0				
3	Cr (µg/L)	15.0				
4	Cu (µg/L)	2.0				
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)	2.0				
8	Zn (µg/L)	9.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	31	48	82	83	84
2	HAR_Total (mgCaCO3/L)	60	109	169	171	174
3	Na% (%)	19	41	27	28	27
4	RSC (-)	0.0	0.0	0.6	0.6	0.7
5	SAR (-)	0.4	1.4	1.0	1.1	1.0
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.Narasipur (CCP00B1)

Division : Cauvery Division, Bangalore

Local River : Kabini

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	43.50	32.64	41.32	31.89	66.35
2	EC_GEN (µmho/cm)	463	400	404	426	446
3	pH_GEN (pH units)	7.5	7.8	7.7	8.0	7.9
4	TDS (mg/L)					274
5	Temp (deg C)	25.4	24.6	26.5	24.7	24.7
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	216	173	178	133	201
3	B (mg/L)	0.00		0.02	0.21	0.30
4	Ca (mg/L)	34	32	37	30	37
5	Cl (mg/L)	24.0	20.4	20.8	19.1	20.8
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)		0.46	0.39	0.34	0.42
8	Fe (mg/L)	0.0		0.1	0.2	0.1
9	HCO3 (mg/L)	254	211	218	162	245
10	K (mg/L)	2.3	2.2	1.6	3.9	2.1
11	Mg (mg/L)	20.7	17.0	13.6	13.3	20.1
12	Na (mg/L)	34.1	25.5	31.9	14.5	27.9
13	NO2+NO3 (mg N/L)	1.70	1.63	1.74	1.63	1.20
14	NO2-N (mgN/L)	0.03	0.02	0.01	0.01	0.00
15	NO3-N (mgN/L)	1.67	1.61	1.72	1.62	1.20
16	o-PO4-P (mg P/L)	0.047		0.134	0.007	0.327
17	SiO2 (mg/L)	21.8		18.2	14.6	25.3
18	SO4 (mg/L)	6.0	5.0	5.5	5.8	6.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.6	0.6	1.0	2.2	1.1
2	COD (mg/L)					
3	DO (mg/L)	5.9	5.7	6.1	6.2	6.0
4	DO_SAT% (%)	72	68	75	74	72
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)		3.8			
2	Cd (µg/L)		0.0		0.0	
3	Cr (µg/L)		0.4		0.3	
4	Cu (µg/L)		0.4		5.0	
5	Hg (µg/L)					
6	Ni (µg/L)		24.3		0.1	
7	Pb (µg/L)				0.7	
8	Zn (µg/L)				7.0	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	84	81	92	76	92
2	HAR_Total (mgCaCO3/L)	170	152	149	131	176
3	Na% (%)	30	26	32	19	25
4	RSC (-)	0.8	0.4	0.6	0.1	0.5
5	SAR (-)	1.1	0.9	1.1	0.6	0.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.Narasipur (CCP00B1)

Division : Cauvery Division, Bangalore

Local River : Kabini

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)		41.61	47.34	11.87	17.82
2	EC_GEN (µmho/cm)		370	356	349	357
3	pH_GEN (pH units)		7.5	7.7	7.9	8.0
4	TDS (mg/L)		213			
5	Temp (deg C)		27.3	20.8	26.8	28.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)		144	93	149	147
3	B (mg/L)		0.05	0.01	0.10	0.08
4	Ca (mg/L)		29	20	26	27
5	Cl (mg/L)		30.5	55.4	17.9	21.2
6	CO3 (mg/L)		0.0	0.0	0.0	0.0
7	F (mg/L)		0.41	0.08	0.23	0.28
8	Fe (mg/L)		0.1	0.1	0.2	0.1
9	HCO3 (mg/L)		176	113	182	180
10	K (mg/L)		2.9	2.0	2.0	2.4
11	Mg (mg/L)		18.5	11.3	16.2	15.6
12	Na (mg/L)		21.0	37.9	24.4	25.5
13	NO2+NO3 (mg N/L)		1.02	0.07	0.42	0.61
14	NO2-N (mgN/L)		0.01	0.00	0.00	0.01
15	NO3-N (mgN/L)		1.00	0.07	0.42	0.60
16	o-PO4-P (mg P/L)		0.067	0.070	0.021	0.055
17	SiO2 (mg/L)		17.6	4.4	19.4	19.8
18	SO4 (mg/L)		9.6	0.1	6.4	5.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		1.4	1.6	1.8	1.0
2	COD (mg/L)					
3	DO (mg/L)		4.0	7.4	5.5	5.9
4	DO_SAT% (%)		50	80	69	75
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)		3.4	9.5	1.7	
2	Cd (µg/L)		0.6	0.9		
3	Cr (µg/L)		6.3			
4	Cu (µg/L)		6.8	3.1	3.7	
5	Hg (µg/L)					
6	Ni (µg/L)		0.9		10.8	
7	Pb (µg/L)		0.1	1.3		
8	Zn (µg/L)		0.1	29.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		73	50	65	68
2	HAR_Total (mgCaCO3/L)		150	97	133	133
3	Na% (%)		23	42	28	29
4	RSC (-)		0.0	0.0	0.3	0.3
5	SAR (-)		0.7	1.8	0.9	1.0
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.Narasipur (CCP00B1)

Division : Cauvery Division, Bangalore

Local River : Kabini

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	17.95	21.07	9.845	
2	EC_GEN (µmho/cm)	472	353	401	
3	pH_GEN (pH units)	7.8	7.6	8.1	
4	TDS (mg/L)				
5	Temp (deg C)	28.7	26.8	26.5	
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	
2	ALK-TOT (mgCaCO3/L)	179	144	153	
3	B (mg/L)	0.08		0.00	
4	Ca (mg/L)	32	27	26	
5	Cl (mg/L)	26.6	15.5	32.3	
6	CO3 (mg/L)	0.0	0.0	0.0	
7	F (mg/L)	0.56	0.30		
8	Fe (mg/L)	0.0		0.0	
9	HCO3 (mg/L)	219	176	187	
10	K (mg/L)	2.7	2.3	3.4	
11	Mg (mg/L)	19.4	15.2	15.6	
12	Na (mg/L)	31.2	22.9	33.4	
13	NO2+NO3 (mg N/L)	1.22	1.93	0.98	
14	NO2-N (mgN/L)	0.03	0.03	0.00	
15	NO3-N (mgN/L)	1.09	1.90	0.98	
16	o-PO4-P (mg P/L)	0.062		0.021	
17	SiO2 (mg/L)	26.8		17.4	
18	SO4 (mg/L)	9.7	9.1	8.6	
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)		2.4	1.0	
2	COD (mg/L)				
3	DO (mg/L)	5.7	5.3	4.9	
4	DO_SAT% (%)	73	65	61	
5	FCol-MPN (MPN/100mL)				
6	Tcol-MPN (MPN/100mL)				
	TRACE & TOXIC				
1	As (µg/L)	1.6	1.2		
2	Cd (µg/L)	0.1	0.1		
3	Cr (µg/L)	1.5	3.7		
4	Cu (µg/L)	4.1	11.1		
5	Hg (µg/L)				
6	Ni (µg/L)		2.7		
7	Pb (µg/L)	0.5	3.9		
8	Zn (µg/L)		30.0		
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	80	67	66	
2	HAR_Total (mgCaCO3/L)	161	130	131	
3	Na% (%)	29	27	34	
4	RSC (-)	0.4	0.3	0.5	
5	SAR (-)	1.1	0.9	1.2	
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : T.Narasipur (CCP00B1)

Division : Cauvery Division, Bangalore

Local River : Kabini

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	12.27	19.25		18.39
2	EC_GEN (µmho/cm)	353	216		345
3	pH_GEN (pH units)	7.8	7.8		7.5
4	TDS (mg/L)		102		207
5	Temp (deg C)	27.5	26.0		26.3
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0		0.0
2	ALK-TOT (mgCaCO3/L)	146	80		105
3	B (mg/L)	0.37	0.36		0.06
4	Ca (mg/L)	26	19		19
5	Cl (mg/L)	24.7	19.9		23.3
6	CO3 (mg/L)	0.0	0.0		0.0
7	F (mg/L)	0.32			0.27
8	Fe (mg/L)	0.1	0.0		0.0
9	HCO3 (mg/L)	178	97		128
10	K (mg/L)	4.9	1.7		1.9
11	Mg (mg/L)	15.9	7.8		10.4
12	Na (mg/L)	20.5	12.9		18.7
13	NO2+NO3 (mg N/L)	0.72	0.49		0.50
14	NO2-N (mgN/L)	0.01	0.01		0.00
15	NO3-N (mgN/L)	0.71	0.48		0.50
16	o-PO4-P (mg P/L)	0.017	0.010		0.083
17	SiO2 (mg/L)	14.1	18.7		17.2
18	SO4 (mg/L)	6.7	5.9		11.5
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	2.1	0.6		1.9
2	COD (mg/L)				17.5
3	DO (mg/L)	5.1	5.6		4.1
4	DO_SAT% (%)	65	69		51
5	FCOI-MPN (MPN/100mL)				280
6	Tcol-MPN (MPN/100mL)				700
	TRACE & TOXIC				
1	As (µg/L)				1.0
2	Cd (µg/L)				0.0
3	Cr (µg/L)				0.5
4	Cu (µg/L)				0.3
5	Hg (µg/L)				
6	Ni (µg/L)				0.7
7	Pb (µg/L)				1.2
8	Zn (µg/L)				0.3
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	65	48		47
2	HAR_Total (mgCaCO3/L)	131	80		90
3	Na% (%)	25	25		44
4	RSC (-)	0.3	0.0		0.3
5	SAR (-)	0.8	0.6		1.2
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: MUTHANKERA	Code	: CCP00T8
State	: Kerala	District	Wynad
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Kabini	Sub Tributary	:
Sub-Sub Tributary	:	Local River	: Kabini
Division	: SWR Division, Cochin	Sub-Division	: Chaliyar SD, Calicut
Drainage Area	: 1260 Sq. Km.	Bank	: Right
Latitude	: 11°50'00"	Longitude	: 76°07'00"
Zero of Gauge (m)	: 705.000 (m.s.l)	01/06/1973	
	Opening Date	Closing Date	
Gauge	: 01/06/1973		
Discharge	: 01/06/1973		
Sediment	: 15/02/1974		
Water Quality	: 01/06/1978		

Water Quality Datasheet for the period : 2017-2018

Station Name : MUTHANKERA (CCP00T8)

Division : SWR Division, Cochin

Local River : Kabini

River Water Analysis

Sub-Division : Chaliyar SD, Calicut

S.No	Parameters	01/06/2017	01/08/2017	03/10/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	7.368	58.54	80.54
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)			42
4	EC_GEN (μmho/cm)	68	57	47
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)	6.6	6.8	7.0
7	pH_GEN (pH units)	6.8	7.3	7.6
8	TDS (mg/L)	48	40	31
9	Temp (deg C)	28.0	24.5	24.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	28	24	16
3	B (mg/L)	0.06	0.07	0.04
4	Ca (mg/L)	8	9	7
5	Cl (mg/L)	8.3	5.8	6.1
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.02	0.06	0.04
8	Fe (mg/L)	0.0	0.1	0.1
9	HCO3 (mg/L)	34	30	20
10	K (mg/L)	3.2	0.8	0.9
11	Mg (mg/L)	2.9	0.7	1.0
12	Na (mg/L)	4.5	3.8	3.4
13	NO2-N (mgN/L)	0.05	0.03	0.04
14	o-PO4-P (mg P/L)	0.046	0.064	0.078
15	SiO2 (mg/L)	8.2	11.4	10.2
16	SO4 (mg/L)	3.3	1.9	3.3
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.8	0.6	1.0
2	DO (mg/L)	7.8	8.0	7.6
3	DO_SAT% (%)	100	95	90
	TRACE & TOXIC			
1	As (μg/L)		8.0	
2	Cd (μg/L)			
3	Cr (μg/L)		3.0	
4	Cu (μg/L)		2.0	
5	Ni (μg/L)			
6	Pb (μg/L)		1.0	
7	Zn (μg/L)		7.0	
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	21	21	16
2	HAR_Total (mgCaCO3/L)	33	24	20
3	Na% (%)	21	25	25
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.3	0.3	0.3
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : MUTHANKERA (CCP00T8)

Division : SWR Division, Cochin

Local River : Kabini

River Water Analysis

Sub-Division : Chaliyar SD, Calicut

S.No	Parameters	01/12/2017	01/02/2018	02/04/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	12.58	4.263	2.431
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_FLD (μmho/cm)			
4	EC_GEN (μmho/cm)	68	74	116
5	Odour_Code (-)	odour free	odour free	odour free
6	pH_FLD (pH units)		6.6	6.2
7	pH_GEN (pH units)	7.4	7.4	6.8
8	TDS (mg/L)	38	44	
9	Temp (deg C)		24.0	28.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	20	24	78
3	B (mg/L)	0.11	0.16	0.09
4	Ca (mg/L)	5	8	25
5	Cl (mg/L)	6.9	8.2	17.7
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.06	0.04	0.08
8	Fe (mg/L)	0.1	0.1	0.1
9	HCO3 (mg/L)	25	29	95
10	K (mg/L)	1.1	1.6	2.8
11	Mg (mg/L)	2.0	2.0	6.7
12	Na (mg/L)	4.9	4.3	11.4
13	NO2-N (mgN/L)	0.04	0.04	0.02
14	o-PO4-P (mg P/L)	0.038	0.132	0.073
15	SiO2 (mg/L)	12.4	12.2	13.2
16	SO4 (mg/L)	3.4	4.1	17.1
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.9	1.0	1.2
2	DO (mg/L)		6.8	6.6
3	DO_SAT% (%)		81	84
	TRACE & TOXIC			
1	As (μg/L)	2.0		1.2
2	Cd (μg/L)	0.1		0.0
3	Cr (μg/L)	61.1		0.1
4	Cu (μg/L)	5.1		34.4
5	Ni (μg/L)	15.3		6.6
6	Pb (μg/L)	3.5		1.4
7	Zn (μg/L)	927.6		27.2
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	12	21	63
2	HAR_Total (mgCaCO3/L)	20	29	91
3	Na% (%)	33	23	21
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.5	0.3	0.5
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : MUTHANKERA (CCP00T8)

Local River : Kabini

Division : SWR Division, Cochin

Sub-Division : Chaliyar SD, Calicut

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	524.8	0.237	51.80
2	EC_FLD (μmho/cm)	1	42	42	42
3	EC_GEN (μmho/cm)	6	116	47	72
4	pH_FLD (pH units)	5	7.0	6.2	6.6
5	pH_GEN (pH units)	6	7.6	6.8	7.2
6	TDS (mg/L)	5	48	31	40
7	Temp (deg C)	5	28.0	24.0	25.7
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	6	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	6	78	16	32
3	B (mg/L)	6	0.16	0.04	0.09
4	Ca (mg/L)	6	25	5	10
5	Cl (mg/L)	6	17.7	5.8	8.8
6	CO3 (mg/L)	6	0.0	0.0	0
7	F (mg/L)	6	0.08	0.02	0.05
8	Fe (mg/L)	6	0.1	0.0	0.1
9	HCO3 (mg/L)	6	95	20	39
10	K (mg/L)	6	3.2	0.8	1.7
11	Mg (mg/L)	6	6.7	0.7	2.6
12	Na (mg/L)	6	11.4	3.4	5.4
13	NO2-N (mgN/L)	6	0.05	0.02	0.04
14	o-PO4-P (mg P/L)	6	0.132	0.038	0.072
15	SiO2 (mg/L)	6	13.2	8.2	11.3
16	SO4 (mg/L)	6	17.1	1.9	5.5
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	6	1.2	0.6	0.9
2	DO (mg/L)	5	8.0	6.6	7.4
3	DO_SAT% (%)	5	100	81	90
	TRACE & TOXIC				
1	As (μg/L)	3	8.0	1.2	3.7
2	Cd (μg/L)	2	0.1	0.0	0
3	Cr (μg/L)	3	61.1	0.1	21.4
4	Cu (μg/L)	3	34.4	2.0	13.8
5	Ni (μg/L)	2	15.3	6.6	10.9
6	Pb (μg/L)	3	3.5	1.0	2
7	Zn (μg/L)	3	927.6	7.0	320.6
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	6	63	12	26
2	HAR_Total (mgCaCO3/L)	6	91	20	36
3	Na% (%)	6	33	21	25
4	RSC (-)	6	0.0	0.0	0
5	SAR (-)	6	0.5	0.3	0.4
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUTHANKERA (CCP00T8)

Division : SWR Division, Cochin

Local River : Kabini

River Water

Sub-Division : Chaliyar SD, Calicut

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)			65.17	101.2	74.65
2	EC_FLD (µmho/cm)			75	78	90
3	EC_GEN (µmho/cm)		69	78	80	86
4	pH_FLD (pH units)				6.5	6.5
5	pH_GEN (pH units)		7.0	7.3	6.9	6.5
6	TDS (mg/L)		49	49	50	57
7	Temp (deg C)		26.0	25.7	26.0	26.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)		0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)		20	25	26	27
3	B (mg/L)		0.07	0.08	0.06	0.23
4	Ca (mg/L)		5	6	6	7
5	Cl (mg/L)		8.8	8.8	9.0	9.5
6	CO3 (mg/L)		0.0	0.0	0.0	0.0
7	F (mg/L)		0.08	0.12	0.15	0.05
8	Fe (mg/L)		0.0	0.0	0.4	0.1
9	HCO3 (mg/L)		24	30	32	33
10	K (mg/L)		1.1	1.8	1.7	1.5
11	Mg (mg/L)		2.5	2.8	2.9	2.9
12	Na (mg/L)		4.6	5.5	5.3	5.5
13	NH3-N (mg N/L)		0.05	0.15	0.21	0.19
14	NO2+NO3 (mg N/L)		0.15		0.15	0.43
15	NO2-N (mgN/L)		0.03		0.01	0.06
16	NO3-N (mgN/L)		0.16		0.23	0.37
17	o-PO4-P (mg P/L)		0.036	0.072	0.106	0.069
18	P-Tot (mgP/L)		0.010			
19	SiO2 (mg/L)		23.2	29.1	39.2	15.6
20	SO4 (mg/L)		1.7	1.0	1.3	0.9
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		0.5	0.4	0.9	1.3
2	COD (mg/L)		3.7	2.7	7.2	7.9
3	DO (mg/L)		6.0	7.0	6.7	6.8
4	DO_SAT% (%)		73	83	82	83
5	FCol-MPN (MPN/100mL)			900	500	280
6	Tcol-MPN (MPN/100mL)			1600	1600	1600
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		13	16	16	19
2	HAR_Total (mgCaCO3/L)		23	28	28	31
3	Na% (%)		29	28	27	26
4	RSC (-)		0.0	0.0	0.0	0.0
5	SAR (-)		0.4	0.4	0.4	0.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUTHANKERA (CCP00T8)

Division : SWR Division, Cochin

Local River : Kabini

River Water

Sub-Division : Chaliyar SD, Calicut

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	37.44	259.1	292.1	57.95	42.71
2	EC_FLD (µmho/cm)					43
3	EC_GEN (µmho/cm)	81	70	69	64	35
4	pH_FLD (pH units)	6.4	6.2	6.8	6.8	6.6
5	pH_GEN (pH units)	7.0	6.8	7.0	7.0	6.6
6	TDS (mg/L)	50	44	45		
7	Temp (deg C)	25.0	23.5	24.5	26.0	27.5
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0			0.0
2	ALK-TOT (mgCaCO3/L)	26	24			37
3	B (mg/L)	0.08	0.03			
4	Ca (mg/L)	7	6	6	6	8
5	Cl (mg/L)	9.5	8.9	9.5	10.4	13.1
6	CO3 (mg/L)	0.0	0.0			0.0
7	F (mg/L)	0.03	0.36			
8	Fe (mg/L)	0.1	0.1			
9	HCO3 (mg/L)	32	29	27	28	45
10	K (mg/L)	1.6	1.5	2.2		0.8
11	Mg (mg/L)	3.8	2.4	7.0	1.9	3.8
12	Na (mg/L)	5.5	5.6	4.2		7.3
13	NH3-N (mg N/L)	0.04				
14	NO2+NO3 (mg N/L)	1.73	0.26			
15	NO2-N (mgN/L)	0.01	0.02			
16	NO3-N (mgN/L)	1.72	0.24			
17	o-PO4-P (mg P/L)	0.173	0.100			
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)	12.1	9.7			
20	SO4 (mg/L)	1.0	0.6	3.4		
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.7	1.1	1.5	0.9	0.9
2	COD (mg/L)	4.8	7.0			
3	DO (mg/L)	6.6	5.5	5.6	6.1	5.9
4	DO_SAT% (%)	79	65	67	75	75
5	Fcol-MPN (MPN/100mL)	503	1250			
6	Tcol-MPN (MPN/100mL)	907	1600	545		
	TRACE & TOXIC					
1	As (µg/L)	0.0	5.1			
2	Cd (µg/L)	0.1	0.0			
3	Cr (µg/L)	1.0	1.0			
4	Cu (µg/L)	3.3	0.7			
5	Hg (µg/L)		0.3			
6	Ni (µg/L)	1.7	6.2			
7	Pb (µg/L)	3.5	1.5			
8	Zn (µg/L)	30.5	19.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	18	15	15	16	21
2	HAR_Total (mgCaCO3/L)	34	25	44	24	37
3	Na% (%)	25	30	19		28
4	RSC (-)	0.0	0.0			0.2
5	SAR (-)	0.4	0.5	0.3		0.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUTHANKERA (CCP00T8)

Division : SWR Division, Cochin

Local River : Kabini

River Water

Sub-Division : Chaliyar SD, Calicut

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	48.82			16.88	20.50
2	EC_FLD (µmho/cm)	42			61	62
3	EC_GEN (µmho/cm)	57		78	76	56
4	pH_FLD (pH units)	6.8				6.5
5	pH_GEN (pH units)	7.2		7.2	6.7	6.9
6	TDS (mg/L)	40		61	44	34
7	Temp (deg C)	25.5		24.5	25.0	23.3
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0		0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	23		28	24	19
3	B (mg/L)	0.06		0.12	0.12	0.34
4	Ca (mg/L)	8		6	6	6
5	Cl (mg/L)	6.7		9.2	8.8	5.7
6	CO3 (mg/L)	0.0		0.0	0.0	0.0
7	F (mg/L)	0.04		0.05	0.29	0.13
8	Fe (mg/L)	0.1		0.2	0.0	0.1
9	HCO3 (mg/L)	28		34	29	23
10	K (mg/L)	1.6		1.4	1.1	0.8
11	Mg (mg/L)	1.5		3.4	2.7	1.5
12	Na (mg/L)	3.9		5.9	6.2	3.3
13	NH3-N (mg N/L)				0.18	0.05
14	NO2+NO3 (mg N/L)					0.52
15	NO2-N (mgN/L)	0.04				0.05
16	NO3-N (mgN/L)			0.32		0.47
17	o-PO4-P (mg P/L)	0.063		0.095	0.018	0.084
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)	9.9		22.6	29.0	14.6
20	SO4 (mg/L)	2.8		1.0	1.2	1.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.8		1.0	0.3	0.7
2	COD (mg/L)			8.4	3.0	5.3
3	DO (mg/L)	7.8		7.2	7.0	7.1
4	DO_SAT% (%)	95		86	84	83
5	Fcol-MPN (MPN/100mL)			900	1600	1600
6	Tcol-MPN (MPN/100mL)			1600	1600	1600
	TRACE & TOXIC					
1	As (µg/L)	8.0				
2	Cd (µg/L)					
3	Cr (µg/L)	3.0				
4	Cu (µg/L)	2.0				
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)	1.0				
8	Zn (µg/L)	7.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	19		14	14	14
2	HAR_Total (mgCaCO3/L)	26		28	25	20
3	Na% (%)	24		30	34	25
4	RSC (-)	0.0		0.0	0.0	0.0
5	SAR (-)	0.3		0.5	0.5	0.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUTHANKERA (CCP00T8)

Division : SWR Division, Cochin

Local River : Kabini

River Water

Sub-Division : Chaliyar SD, Calicut

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	16.25	8.338	4.714	13.96	16.55
2	EC_FLD (µmho/cm)	91				
3	EC_GEN (µmho/cm)	91	74	90	75	79
4	pH_FLD (pH units)	6.8	6.8	6.4	6.9	6.6
5	pH_GEN (pH units)	7.0	6.8	7.2	7.4	7.5
6	TDS (mg/L)	62	48	62	44	
7	Temp (deg C)	24.3	23.8	23.3	23.0	25.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0		
2	ALK-TOT (mgCaCO3/L)	33	22	33		
3	B (mg/L)	0.28	0.13	0.06		
4	Ca (mg/L)	9	8	6	6	6
5	Cl (mg/L)	9.9	9.5	10.3	7.6	15.6
6	CO3 (mg/L)	0.0	0.0	0.0		
7	F (mg/L)	0.41	0.24	0.16		
8	Fe (mg/L)	1.1	0.1		0.0	0.0
9	HCO3 (mg/L)	41	26	40	35	42
10	K (mg/L)	1.7	1.4	1.6		0.3
11	Mg (mg/L)	2.5	1.5	5.1	3.3	4.9
12	Na (mg/L)	6.7	5.3	6.5		14.6
13	NH3-N (mg N/L)	0.04	0.10			
14	NO2+NO3 (mg N/L)	2.91	1.21	0.47		
15	NO2-N (mgN/L)	0.01	0.06	0.01		
16	NO3-N (mgN/L)	2.22	1.15	0.46		
17	o-PO4-P (mg P/L)	0.104	0.344			
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)	11.7	16.7	9.3		
20	SO4 (mg/L)	0.9	0.9	1.1	0.7	
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.8	0.4	1.1	0.6	1.2
2	COD (mg/L)	5.5	5.4	5.8		
3	DO (mg/L)	6.7	5.8	7.4	6.1	6.8
4	DO_SAT% (%)	80	69	86	71	82
5	FCol-MPN (MPN/100mL)	1600	240	1600		
6	Tcol-MPN (MPN/100mL)	1600	500	1600		
	TRACE & TOXIC					
1	As (µg/L)	0.3				
2	Cd (µg/L)	0.2			0.1	
3	Cr (µg/L)	2.2			4.4	
4	Cu (µg/L)	36.9			6.5	
5	Hg (µg/L)					
6	Ni (µg/L)	3.9			2.1	
7	Pb (µg/L)	0.2			3.1	
8	Zn (µg/L)	9.2			9.5	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	22	20	14	16	16
2	HAR_Total (mgCaCO3/L)	32	26	35	30	36
3	Na% (%)	30	29	28		48
4	RSC (-)	0.1	0.0	0.0		
5	SAR (-)	0.5	0.5	0.5		1.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUTHANKERA (CCP00T8)

Division : SWR Division, Cochin

Local River : Kabini

River Water

Sub-Division : Chaliyar SD, Calicut

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	7.220	8.423			4.498
2	EC_FLD (µmho/cm)	43				59
3	EC_GEN (µmho/cm)	73	71		119	104
4	pH_FLD (pH units)	6.4	6.6			
5	pH_GEN (pH units)	7.1	7.4		6.3	7.0
6	TDS (mg/L)		41		83	61
7	Temp (deg C)	25.5	24.0		29.0	28.5
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0		0.0	0.0
2	ALK-TOT (mgCaCO3/L)	20	22		37	36
3	B (mg/L)		0.13		0.09	
4	Ca (mg/L)	9	7		9	4
5	Cl (mg/L)	9.9	7.6		9.9	10.6
6	CO3 (mg/L)	0.0	0.0		0.0	0.0
7	F (mg/L)		0.05		0.19	0.28
8	Fe (mg/L)		0.1		0.0	0.0
9	HCO3 (mg/L)	25	27		46	44
10	K (mg/L)	1.9	1.3		3.5	3.2
11	Mg (mg/L)	5.2	2.0		3.9	4.9
12	Na (mg/L)	10.9	4.6		6.9	6.2
13	NH3-N (mg N/L)				0.07	0.10
14	NO2+NO3 (mg N/L)				0.36	
15	NO2-N (mgN/L)		0.04		0.04	
16	NO3-N (mgN/L)				0.32	0.21
17	o-PO4-P (mg P/L)		0.085		0.040	
18	P-Tot (mgP/L)					
19	SiO2 (mg/L)		12.3		16.4	28.7
20	SO4 (mg/L)		3.8		1.2	1.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.1	0.9		0.8	0.4
2	COD (mg/L)				6.4	3.2
3	DO (mg/L)	7.6	6.8		5.4	7.2
4	DO_SAT% (%)	93	81		70	93
5	Fcol-MPN (MPN/100mL)				1600	900
6	Tcol-MPN (MPN/100mL)				1600	1600
	TRACE & TOXIC					
1	As (µg/L)		2.0		12.5	
2	Cd (µg/L)		0.1			
3	Cr (µg/L)		61.1		2.0	
4	Cu (µg/L)		5.1		1.0	
5	Hg (µg/L)					
6	Ni (µg/L)		15.3		8.2	
7	Pb (µg/L)		3.5		1.0	
8	Zn (µg/L)		927.6			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	22	17		22	10
2	HAR_Total (mgCaCO3/L)	43	25		38	30
3	Na% (%)	35	28		26	28
4	RSC (-)	0.0	0.0		0.0	0.1
5	SAR (-)	0.7	0.4		0.5	0.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUTHANKERA (CCP00T8)

Division : SWR Division, Cochin

Local River : Kabini

River Water

Sub-Division : Chaliyar SD, Calicut

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	8.064	4.245	1.664	4.828
2	EC_FLD (µmho/cm)	95	91	7	
3	EC_GEN (µmho/cm)	114	115	110	110
4	pH_FLD (pH units)	7.1	7.0	6.0	6.4
5	pH_GEN (pH units)	8.9	6.7	7.1	7.1
6	TDS (mg/L)	74	78	77	79
7	Temp (deg C)	27.0	25.0	29.0	29.0
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	5.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	34	40	34	36
3	B (mg/L)	0.14	0.29	0.08	0.16
4	Ca (mg/L)	9	11	9	8
5	Cl (mg/L)	14.2	10.7	8.5	13.4
6	CO3 (mg/L)	6.0	0.0	0.0	0.0
7	F (mg/L)	0.18	0.07	0.46	0.09
8	Fe (mg/L)	0.4	0.1	0.1	0.0
9	HCO3 (mg/L)	29	49	42	44
10	K (mg/L)	4.2	2.0	3.5	3.8
11	Mg (mg/L)	4.4	3.5	3.5	5.0
12	Na (mg/L)	7.6	7.3	6.0	8.4
13	NH3-N (mg N/L)	0.09	0.12		
14	NO2+NO3 (mg N/L)	0.38	2.51	1.21	0.99
15	NO2-N (mgN/L)	0.04	0.09	0.01	0.00
16	NO3-N (mgN/L)	0.34	2.42	1.20	0.99
17	o-PO4-P (mg P/L)	0.143	0.095	0.090	0.100
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)	22.0	12.0	15.2	12.1
20	SO4 (mg/L)	1.0	0.9	1.1	1.0
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)		1.6	0.6	0.4
2	COD (mg/L)	6.2	12.6	3.0	2.8
3	DO (mg/L)	7.0	4.8	5.9	6.1
4	DO_SAT% (%)	88	58	77	79
5	FCol-MPN (MPN/100mL)		900	280	300
6	Tcol-MPN (MPN/100mL)		1600	350	500
	TRACE & TOXIC				
1	As (µg/L)	1.2			1.7
2	Cd (µg/L)	0.0	0.1		0.0
3	Cr (µg/L)	1.0	0.8		1.4
4	Cu (µg/L)	7.4	3.6		1.1
5	Hg (µg/L)	0.0			
6	Ni (µg/L)		0.9		1.6
7	Pb (µg/L)	0.1	4.3		0.2
8	Zn (µg/L)	12.6	0.1		1.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	22	28	22	21
2	HAR_Total (mgCaCO3/L)	40	43	37	42
3	Na% (%)	27	26	24	28
4	RSC (-)	0.0	0.0	0.0	0.0
5	SAR (-)	0.5	0.5	0.4	0.6
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : MUTHANKERA (CCP00T8)

Division : SWR Division, Cochin

Local River : Kabini

River Water

Sub-Division : Chaliyar SD, Calicut

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	4.904	2.544	0.327	2.431
2	EC_FLD (µmho/cm)			46	
3	EC_GEN (µmho/cm)	112	132	83	116
4	pH_FLD (pH units)	7.2	6.2	6.2	6.2
5	pH_GEN (pH units)	7.6	6.4	6.8	6.8
6	TDS (mg/L)	44			
7	Temp (deg C)	25.0	28.5	27.5	28.0
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)			0.0	0.0
2	ALK-TOT (mgCaCO3/L)			16	78
3	B (mg/L)				0.09
4	Ca (mg/L)	6	11	19	25
5	Cl (mg/L)	3.9	19.5	18.2	17.7
6	CO3 (mg/L)			0.0	0.0
7	F (mg/L)				0.08
8	Fe (mg/L)				0.1
9	HCO3 (mg/L)	18	10	19	95
10	K (mg/L)		0.4	2.0	2.8
11	Mg (mg/L)	2.8	3.8	9.5	6.7
12	Na (mg/L)		16.6	11.0	11.4
13	NH3-N (mg N/L)				
14	NO2+NO3 (mg N/L)				
15	NO2-N (mgN/L)				0.02
16	NO3-N (mgN/L)				
17	o-PO4-P (mg P/L)				0.073
18	P-Tot (mgP/L)				
19	SiO2 (mg/L)				13.2
20	SO4 (mg/L)				17.1
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	0.2	1.4	0.4	1.2
2	COD (mg/L)				
3	DO (mg/L)	5.4	7.8	6.6	6.6
4	DO_SAT% (%)	65	100	83	84
5	FCol-MPN (MPN/100mL)				
6	Tcol-MPN (MPN/100mL)				
	TRACE & TOXIC				
1	As (µg/L)				1.2
2	Cd (µg/L)				0.0
3	Cr (µg/L)				0.1
4	Cu (µg/L)				34.4
5	Hg (µg/L)				
6	Ni (µg/L)				6.6
7	Pb (µg/L)				1.4
8	Zn (µg/L)				27.2
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	16	27	47	63
2	HAR_Total (mgCaCO3/L)	28	43	87	91
3	Na% (%)		45	21	21
4	RSC (-)			0.0	0.0
5	SAR (-)		1.1	0.5	0.5
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: K.M.VADI	Code	: CCQ00E9
State	: Karnataka	District	Mysore
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Lakhshmanthirtha	Sub Tributary	:
Sub-Sub Tributary	:	Local River	: Lakhshmanthirtha
Division	: Cauvery Division, Bangalore	Sub-Division	: Upper Cauvery SD, Bangalore
Drainage Area	: 1330 Sq. Km.	Bank	: Left
Latitude	: 12°20'45"	Longitude	: 76°17'00"
Zero of Gauge (m)	: 766.500 (m.s.l) 765.000 (m.s.l)	16/02/1978 01/06/1986	- 31/05/1986
	Opening Date	Closing Date	
Gauge	: 16/02/1978		
Discharge	: 26/06/1979		
Sediment	:		
Water Quality	: 01/07/1979		

Water Quality Datasheet for the period : 2017-2018

Station Name : K.M.Vadi (CCQ00E9)

Division : Cauvery Division, Bangalore

Local River : Lakhshmanthirtha

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	18.36	0.712
2	Colour_Cod (-)			Clear
3	EC_GEN (μmho/cm)			130
4	Odour_Code (-)			odour free
5	pH_GEN (pH units)			7.2
6	TDS (mg/L)			78
7	Temp (deg C)			26.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			0.0
2	ALK-TOT (mgCaCO3/L)			48
3	B (mg/L)			0.14
4	Ca (mg/L)			11
5	Cl (mg/L)			10.7
6	CO3 (mg/L)			0.0
7	F (mg/L)			0.04
8	Fe (mg/L)			0.2
9	HCO3 (mg/L)			59
10	K (mg/L)			2.6
11	Mg (mg/L)			6.1
12	Na (mg/L)			6.0
13	NO2+NO3 (mg N/L)			1.06
14	NO2-N (mgN/L)			0.01
15	NO3-N (mgN/L)			1.05
16	o-PO4-P (mg P/L)			0.217
17	SiO2 (mg/L)			13.4
18	SO4 (mg/L)			4.3
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			1.7
2	DO (mg/L)			4.9
3	DO_SAT% (%)			61
	TRACE & TOXIC			
1	As (μg/L)			3.0
2	Cd (μg/L)			0.0
3	Cr (μg/L)			11.0
4	Cu (μg/L)			3.0
5	Pb (μg/L)			2.0
6	Zn (μg/L)			25.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			28
2	HAR_Total (mgCaCO3/L)			53
3	Na% (%)			19
4	RSC (-)			0.0
5	SAR (-)			0.4
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : K.M.Vadi (CCQ00E9)

Division : Cauvery Division, Bangalore

Local River : Lakhshmanthirtha

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	35.39	1.646	No Flow
2	Colour_Cod (-)		Clear	
3	EC_GEN (µmho/cm)		229	
4	Odour_Code (-)		odour free	
5	pH_GEN (pH units)		7.5	
6	TDS (mg/L)		154	
7	Temp (deg C)		25.5	
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	
2	ALK-TOT (mgCaCO3/L)		87	
3	B (mg/L)		0.64	
4	Ca (mg/L)		18	
5	Cl (mg/L)		13.1	
6	CO3 (mg/L)		0.0	
7	F (mg/L)		0.11	
8	Fe (mg/L)		0.0	
9	HCO3 (mg/L)		106	
10	K (mg/L)		1.8	
11	Mg (mg/L)		14.6	
12	Na (mg/L)		9.0	
13	NO2+NO3 (mg N/L)		0.77	
14	NO2-N (mgN/L)		0.01	
15	NO3-N (mgN/L)		0.76	
16	o-PO4-P (mg P/L)		0.010	
17	SiO2 (mg/L)		13.9	
18	SO4 (mg/L)		9.0	
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		1.0	
2	DO (mg/L)		5.0	
3	DO_SAT% (%)		61	
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Pb (µg/L)			
6	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		45	
2	HAR_Total (mgCaCO3/L)		106	
3	Na% (%)		15	
4	RSC (-)		0.0	
5	SAR (-)		0.4	
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : K.M.Vadi (CCQ00E9)

Division : Cauvery Division, Bangalore

Local River : Lakhshmanthirtha

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SiO2 (mg/L)			
18	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	DO (mg/L)			
3	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Pb (μg/L)			
6	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : K.M.Vadi (CCQ00E9)

Division : Cauvery Division, Bangalore

Local River : Lakhshmanthirtha

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SiO2 (mg/L)			
18	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	DO (mg/L)			
3	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Pb (μg/L)			
6	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : K.M.Vadi (CCQ00E9)

Division : Cauvery Division, Bangalore

Local River : Lakhshmanthirtha

Sub-Division : Upper Cauvery SD, Bangalore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	76.46	0.000	2.598
2	EC_GEN (µmho/cm)	2	229	130	180
3	pH_GEN (pH units)	2	7.5	7.2	7.3
4	TDS (mg/L)	2	154	78	116
5	Temp (deg C)	2	26.0	25.5	25.8
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	2	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	2	87	48	67
3	B (mg/L)	2	0.64	0.14	0.39
4	Ca (mg/L)	2	18	11	15
5	Cl (mg/L)	2	13.1	10.7	11.9
6	CO3 (mg/L)	2	0.0	0.0	0
7	F (mg/L)	2	0.11	0.04	0.08
8	Fe (mg/L)	2	0.2	0.0	0.1
9	HCO3 (mg/L)	2	106	59	82
10	K (mg/L)	2	2.6	1.8	2.2
11	Mg (mg/L)	2	14.6	6.1	10.3
12	Na (mg/L)	2	9.0	6.0	7.5
13	NO2+NO3 (mg N/L)	2	1.06	0.77	0.92
14	NO2-N (mgN/L)	2	0.01	0.01	0.01
15	NO3-N (mgN/L)	2	1.05	0.76	0.9
16	o-PO4-P (mg P/L)	2	0.217	0.010	0.114
17	SiO2 (mg/L)	2	13.9	13.4	13.6
18	SO4 (mg/L)	2	9.0	4.3	6.6
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	2	1.7	1.0	1.4
2	DO (mg/L)	2	5.0	4.9	5
3	DO_SAT% (%)	2	61	61	61
	TRACE & TOXIC				
1	As (µg/L)	1	3.0	3.0	3
2	Cd (µg/L)	1	0.0	0.0	0
3	Cr (µg/L)	1	11.0	11.0	11
4	Cu (µg/L)	1	3.0	3.0	3
5	Pb (µg/L)	1	2.0	2.0	2
6	Zn (µg/L)	1	25.0	25.0	25
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	2	45	28	37
2	HAR_Total (mgCaCO3/L)	2	106	53	80
3	Na% (%)	2	19	15	17
4	RSC (-)	2	0.0	0.0	0
5	SAR (-)	2	0.4	0.4	0.4
	PESTICIDES				

Water Quality Seasonal Average for the period: 2003-2018

Station Name : K.M.Vadi (CCQ00E9)

Division : Cauvery Division, Bangalore

Local River : Lakhshmanthirtha

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)		53.48	18.33	26.92	35.81
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)		189	281	226	202
4	pH_FLD (pH units)					
5	pH_GEN (pH units)		7.5	7.5	7.4	7.0
6	TDS (mg/L)					
7	Temp (deg C)		23.3	23.7	24.4	23.6
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)		65	113	93	89
2	B (mg/L)			0.06	0.02	0.02
3	Ca (mg/L)		15	20	16	15
4	Cl (mg/L)		16.1	21.2	18.3	16.1
5	F (mg/L)		0.07	0.18	0.21	0.06
6	Fe (mg/L)			0.2	0.4	0.2
7	HCO3 (mg/L)		79	138	105	96
8	K (mg/L)		2.0	1.9	1.8	1.5
9	Mg (mg/L)		7.8	13.3	10.0	8.3
10	Na (mg/L)		11.0	19.8	14.0	13.6
11	NO2+NO3 (mg N/L)		0.78	0.84	1.01	1.29
12	NO2-N (mgN/L)		0.03	0.06	0.09	0.01
13	NO3-N (mgN/L)		0.75	0.78	0.92	1.27
14	o-PO4-P (mg P/L)			0.017	0.026	0.010
15	SiO2 (mg/L)			15.6	15.0	14.0
16	SO4 (mg/L)		4.1	4.8	4.2	3.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		37	49	39	37
2	HAR_Total (mgCaCO3/L)		70	105	81	71
3	Na% (%)		25	28	26	26
4	RSC (-)		0.0	0.2	0.2	0.2
5	SAR (-)		0.6	0.8	0.6	0.6
	PESTICIDES					

Water Quality monitoring suspended as per rationalisation of sites.

Water Quality Seasonal Average for the period: 2003-2018

Station Name : K.M.Vadi (CCQ00E9)

Division : Cauvery Division, Bangalore

Local River : Lakhshmanthirtha

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	24.35	45.34	56.27	29.03	0.360
2	EC_FLD (µmho/cm)		122			
3	EC_GEN (µmho/cm)	111	169	288	206	195
4	pH_FLD (pH units)		7.0			
5	pH_GEN (pH units)	7.0	7.0	7.1	7.1	7.0
6	TDS (mg/L)					121
7	Temp (deg C)	24.0	24.5	25.0	24.5	25.5
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	34	63	113	75	76
2	B (mg/L)		0.03	0.11	0.19	0.07
3	Ca (mg/L)	10	13	25	16	13
4	Cl (mg/L)	11.2	10.6	16.3	19.3	16.7
5	F (mg/L)	0.55	0.30	0.18	0.19	
6	Fe (mg/L)	0.0	0.5	0.2	0.3	0.2
7	HCO3 (mg/L)	41	76	138	92	93
8	K (mg/L)	1.3	1.7	2.2	2.2	2.0
9	Mg (mg/L)	4.6	6.1	12.6	10.2	10.8
10	Na (mg/L)	4.9	12.5	14.0	9.3	10.5
11	NO2+NO3 (mg N/L)	0.95	1.47	2.53	0.96	1.19
12	NO2-N (mgN/L)	0.02	0.05	0.05	0.05	0.07
13	NO3-N (mgN/L)	0.93	1.42	2.48	0.91	1.12
14	o-PO4-P (mg P/L)		0.075	0.052	0.222	0.010
15	SiO2 (mg/L)		11.6	11.8	15.1	14.9
16	SO4 (mg/L)	4.4	7.4	7.1	4.0	3.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)		5.1			
2	Cd (µg/L)		0.0			
3	Cr (µg/L)		1.5			
4	Cu (µg/L)		0.9			
5	Ni (µg/L)		11.3			
6	Pb (µg/L)		0.9			
7	Zn (µg/L)		0.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	25	33	63	40	33
2	HAR_Total (mgCaCO3/L)	44	58	115	83	78
3	Na% (%)	19	26	21	20	22
4	RSC (-)	0.0	0.2	0.1	0.0	0.0
5	SAR (-)	0.3	0.6	0.6	0.5	0.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2003-2018

Station Name : K.M.Vadi (CCQ00E9)

Division : Cauvery Division, Bangalore

Local River : Lakhshmanthirtha

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	1.179	Water Quality monitoring suspended as per rationalisation of sites.	1.291	3.017	3.094
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)	180		251	441	488
4	pH_FLD (pH units)					
5	pH_GEN (pH units)	7.3		7.6	7.7	7.6
6	TDS (mg/L)	116				
7	Temp (deg C)	25.8		21.5	24.2	22.6
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	67		117	235	214
2	B (mg/L)	0.39		1.27	0.07	0.08
3	Ca (mg/L)	15		19	27	33
4	Cl (mg/L)	11.9		15.6	25.2	29.7
5	F (mg/L)	0.08		0.23	0.19	0.35
6	Fe (mg/L)	0.1		0.1	0.0	0.2
7	HCO3 (mg/L)	82		142	206	261
8	K (mg/L)	2.2		1.6	1.5	2.2
9	Mg (mg/L)	10.3		10.7	19.8	24.3
10	Na (mg/L)	7.5		18.9	29.1	36.3
11	NO2+NO3 (mg N/L)	0.92		0.52	0.69	1.18
12	NO2-N (mgN/L)	0.01		0.00	0.00	0.04
13	NO3-N (mgN/L)	0.90		0.52	0.69	1.13
14	o-PO4-P (mg P/L)	0.114		0.041	0.014	0.026
15	SiO2 (mg/L)	13.6		16.9	24.9	22.2
16	SO4 (mg/L)	6.6		2.8	4.2	8.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.4				
2	COD (mg/L)					
3	DO (mg/L)	5.0				
4	DO_SAT% (%)	61				
	TRACE & TOXIC					
1	As (µg/L)	3.0				
2	Cd (µg/L)	0.0				
3	Cr (µg/L)	11.0				
4	Cu (µg/L)	3.0				
5	Ni (µg/L)					
6	Pb (µg/L)	2.0				
7	Zn (µg/L)	25.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	37		48	67	83
2	HAR_Total (mgCaCO3/L)	80		93	149	184
3	Na% (%)	17		30	27	29
4	RSC (-)	0.0		0.5	0.5	0.6
5	SAR (-)	0.4		0.9	1.0	1.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2003-2018

Station Name : K.M.Vadi (CCQ00E9)

Division : Cauvery Division, Bangalore

Local River : Lakhshmanthirtha

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	3.489	4.029	0.934	0.786	16.22
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)	495	417	412	488	510
4	pH_FLD (pH units)					
5	pH_GEN (pH units)	7.1	7.5	7.5	7.9	7.6
6	TDS (mg/L)					303
7	Temp (deg C)	24.0	23.0	23.3	24.5	25.5
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	216	164	217	212	233
2	B (mg/L)	0.00		0.03	0.27	0.28
3	Ca (mg/L)	34	35	39	37	35
4	Cl (mg/L)	31.4	23.8	27.0	26.3	25.4
5	F (mg/L)			0.49	0.38	0.47
6	Fe (mg/L)	0.0		0.1	0.1	0.2
7	HCO3 (mg/L)	263	200	265	259	284
8	K (mg/L)	2.9	3.0	1.7	6.0	2.5
9	Mg (mg/L)	20.9	10.7	15.2	23.6	25.3
10	Na (mg/L)	36.4	30.6	43.0	28.6	36.6
11	NO2+NO3 (mg N/L)	1.62	1.42	1.88	1.57	0.94
12	NO2-N (mgN/L)	0.01	0.01	0.05	0.01	0.00
13	NO3-N (mgN/L)	1.60	1.40	1.83	1.56	0.94
14	o-PO4-P (mg P/L)	0.021		0.072	0.028	0.517
15	SiO2 (mg/L)	19.2		25.6	15.6	27.1
16	SO4 (mg/L)	5.4	4.8	6.6	7.8	6.5
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)				0.3	
3	Cr (µg/L)				1.9	
4	Cu (µg/L)				7.4	
5	Ni (µg/L)				2.0	
6	Pb (µg/L)				2.6	
7	Zn (µg/L)				10.3	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	84	88	97	93	88
2	HAR_Total (mgCaCO3/L)	171	133	161	191	193
3	Na% (%)	31	33	37	24	29
4	RSC (-)	0.9	0.6	1.1	0.4	0.8
5	SAR (-)	1.2	1.2	1.5	0.9	1.1
	PESTICIDES					

Water Quality Seasonal Average for the period: 2003-2018

Station Name : K.M.Vadi (CCQ00E9)

Division : Cauvery Division, Bangalore

Local River : Lakhshmanthirtha

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	No Flow / Dry	No Flow / Dry Bed	1.577	No Flow / Dry Bed	No Flow / Dry Bed
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)			570		
4	pH_FLD (pH units)					
5	pH_GEN (pH units)			7.8		
6	TDS (mg/L)					
7	Temp (deg C)			24.5		
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)			165		
2	B (mg/L)			0.00		
3	Ca (mg/L)			39		
4	Cl (mg/L)			66.0		
5	F (mg/L)			0.53		
6	Fe (mg/L)			0.2		
7	HCO3 (mg/L)			202		
8	K (mg/L)			1.2		
9	Mg (mg/L)			19.1		
10	Na (mg/L)			49.0		
11	NO2+NO3 (mg N/L)			0.04		
12	NO2-N (mgN/L)			0.00		
13	NO3-N (mgN/L)			0.04		
14	o-PO4-P (mg P/L)			0.703		
15	SiO2 (mg/L)			2.8		
16	SO4 (mg/L)			4.2		
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)			98		
2	HAR_Total (mgCaCO3/L)			177		
3	Na% (%)			37		
4	RSC (-)			0.0		
5	SAR (-)			1.6		
	PESTICIDES					

Water Quality Seasonal Average for the period: 2003-2018

Station Name : K.M.Vadi (CCQ00E9)

Division : Cauvery Division, Bangalore

Local River : Lakhshmanthirtha

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	No Flow / Dry Bed	No Flow / Dry Bed	No Flow / Dry Bed	No Flow / Dry Bed
2	EC_FLD (µmho/cm)				
3	EC_GEN (µmho/cm)				
4	pH_FLD (pH units)				
5	pH_GEN (pH units)				
6	TDS (mg/L)				
7	Temp (deg C)				
	CHEMICAL				
1	ALK-TOT (mgCaCO3/L)				
2	B (mg/L)				
3	Ca (mg/L)				
4	Cl (mg/L)				
5	F (mg/L)				
6	Fe (mg/L)				
7	HCO3 (mg/L)				
8	K (mg/L)				
9	Mg (mg/L)				
10	Na (mg/L)				
11	NO2+NO3 (mg N/L)				
12	NO2-N (mgN/L)				
13	NO3-N (mgN/L)				
14	o-PO4-P (mg P/L)				
15	SiO2 (mg/L)				
16	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
2	COD (mg/L)				
3	DO (mg/L)				
4	DO_SAT% (%)				
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

Water Quality Seasonal Average for the period: 2003-2018

Station Name : K.M.Vadi (CCQ00E9)

Division : Cauvery Division, Bangalore

Local River : Lakhshmanthirtha

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	No Flow / Dry Bed	No Flow / Dry Bed	No Flow / Dry Bed	No Flow / Dry Bed
2	EC_FLD (µmho/cm)				
3	EC_GEN (µmho/cm)				
4	pH_FLD (pH units)				
5	pH_GEN (pH units)				
6	TDS (mg/L)				
7	Temp (deg C)				
	CHEMICAL				
1	ALK-TOT (mgCaCO3/L)				
2	B (mg/L)				
3	Ca (mg/L)				
4	Cl (mg/L)				
5	F (mg/L)				
6	Fe (mg/L)				
7	HCO3 (mg/L)				
8	K (mg/L)				
9	Mg (mg/L)				
10	Na (mg/L)				
11	NO2+NO3 (mg N/L)				
12	NO2-N (mgN/L)				
13	NO3-N (mgN/L)				
14	o-PO4-P (mg P/L)				
15	SiO2 (mg/L)				
16	SO4 (mg/L)				
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
2	COD (mg/L)				
3	DO (mg/L)				
4	DO_SAT% (%)				
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)				
2	HAR_Total (mgCaCO3/L)				
3	Na% (%)				
4	RSC (-)				
5	SAR (-)				
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: AKKIHEBBAL	Code	: CCR00B7
State	: Karnataka	District	Mandya
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Hemavathi	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Hemavathi
Division	: Cauvery Division, Bangalore	Sub-Division	: Upper Cauvery SD, Bangalore
Drainage Area	: 5236 Sq. Km.	Bank	: Right
Latitude	: 12°36'10"	Longitude	: 76°24'03"
Zero of Gauge (m)	: 745.000 (m.s.l.)	04/08/1998	
	Opening Date	Closing Date	
Gauge	: 04/08/1998		
Discharge	: 23/01/2002		
Sediment	: 26/03/2013		
Water Quality	: 02/09/2002		

Water Quality Datasheet for the period : 2017-2018

Station Name : Akkihebbal (CCR00B7)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	2.149	No Flow	1.144
2	Colour_Cod (-)	CLEAR		Clear
3	EC_GEN (μmho/cm)	334		391
4	Odour_Code (-)	ODOUR FREE		odour free
5	pH_GEN (pH units)	7.9		7.8
6	TDS (mg/L)	200		266
7	Temp (deg C)	28.0		27.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0		0.0
2	ALK-TOT (mgCaCO3/L)	135		152
3	B (mg/L)	0.04		0.38
4	Ca (mg/L)	26		22
5	Cl (mg/L)	21.7		35.1
6	CO3 (mg/L)	0.0		0.0
7	F (mg/L)	0.15		0.21
8	Fe (mg/L)	0.0		0.0
9	HCO3 (mg/L)	165		185
10	K (mg/L)	2.2		3.8
11	Mg (mg/L)	14.3		19.0
12	Na (mg/L)	19.0		25.0
13	NO2+NO3 (mg N/L)	0.67		1.04
14	NO2-N (mgN/L)	0.01		0.01
15	NO3-N (mgN/L)	0.66		1.02
16	o-PO4-P (mg P/L)	0.010		0.196
17	SiO2 (mg/L)	26.1		26.2
18	SO4 (mg/L)	12.4		10.4
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.4		1.7
2	COD (mg/L)			
3	DO (mg/L)	4.3		5.3
4	DO_SAT% (%)	55		67
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (μg/L)			1.0
2	Cd (μg/L)			0.0
3	Cr (μg/L)			11.0
4	Cu (μg/L)			2.0
5	Ni (μg/L)			
6	Pb (μg/L)			1.0
7	Zn (μg/L)			8.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	66		56
2	HAR_Total (mgCaCO3/L)	126		135
3	Na% (%)	24		28
4	RSC (-)	0.2		0.0
5	SAR (-)	0.7		0.7
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Akkihebbal (CCR00B7)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	04/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	63.82	49.41	5.137
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (μmho/cm)	129	311	358
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.5	7.8	7.6
6	TDS (mg/L)	82	194	218
7	Temp (deg C)	27.0	29.0	26.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	40	126	155
3	B (mg/L)	0.05	0.53	0.05
4	Ca (mg/L)	9	28	28
5	Cl (mg/L)	14.6	16.7	18.5
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.08	0.15	0.29
8	Fe (mg/L)	0.1	0.0	0.1
9	HCO3 (mg/L)	48	154	189
10	K (mg/L)	1.5	2.7	1.7
11	Mg (mg/L)	5.3	16.3	22.4
12	Na (mg/L)	10.0	12.0	13.0
13	NO2+NO3 (mg N/L)	0.92	0.98	0.27
14	NO2-N (mgN/L)	0.00	0.00	0.00
15	NO3-N (mgN/L)	0.92	0.98	0.27
16	o-PO4-P (mg P/L)	0.010	0.000	0.279
17	SiO2 (mg/L)	2.2	10.9	20.9
18	SO4 (mg/L)	6.6	11.3	14.0
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.0	1.0	0.8
2	COD (mg/L)			
3	DO (mg/L)	5.2	6.0	5.5
4	DO_SAT% (%)	65	78	68
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	22	71	70
2	HAR_Total (mgCaCO3/L)	44	139	163
3	Na% (%)	32	16	15
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.4	0.4	0.5
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Akkihebbal (CCR00B7)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	04/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	3.708	3.282	0.924
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (μmho/cm)	380	369	371
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.7	7.9	7.8
6	TDS (mg/L)	234	234	216
7	Temp (deg C)	24.0	22.0	23.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	168	155	159
3	B (mg/L)	0.37	0.00	0.04
4	Ca (mg/L)	38	34	31
5	Cl (mg/L)	19.9	22.7	18.1
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.32	0.21	0.27
8	Fe (mg/L)	0.1	0.0	0.0
9	HCO3 (mg/L)	205	189	195
10	K (mg/L)	1.7	1.7	1.7
11	Mg (mg/L)	18.3	20.0	21.7
12	Na (mg/L)	14.0	14.0	14.0
13	NO2+NO3 (mg N/L)	0.62	0.46	0.77
14	NO2-N (mgN/L)	0.00	0.01	0.01
15	NO3-N (mgN/L)	0.62	0.45	0.76
16	o-PO4-P (mg P/L)	0.000	0.000	0.010
17	SiO2 (mg/L)	9.5	11.1	20.1
18	SO4 (mg/L)	6.0	8.1	13.8
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.9	1.4	0.4
2	COD (mg/L)			
3	DO (mg/L)	5.7	6.2	6.2
4	DO_SAT% (%)	68	71	72
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (μg/L)	5.0		
2	Cd (μg/L)	0.0		
3	Cr (μg/L)	4.8		
4	Cu (μg/L)	1.9		
5	Ni (μg/L)	4.3		
6	Pb (μg/L)	2.6		
7	Zn (μg/L)	2.5		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	95	86	78
2	HAR_Total (mgCaCO3/L)	171	473	168
3	Na% (%)	15	6	15
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.3	0.5	0.7
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Akkihebbal (CCR00B7)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.986	1.215	0.872
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (μmho/cm)	403	421	395
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.6	7.6	7.6
6	TDS (mg/L)	240	244	258
7	Temp (deg C)	23.5	27.0	29.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	163	171	152
3	B (mg/L)	0.00	0.05	0.14
4	Ca (mg/L)	38	30	33
5	Cl (mg/L)	28.4	29.8	21.7
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.17	0.38	0.25
8	Fe (mg/L)	0.0	0.0	0.0
9	HCO3 (mg/L)	198	209	185
10	K (mg/L)	1.9	2.3	1.6
11	Mg (mg/L)	19.4	22.2	18.6
12	Na (mg/L)	20.6	23.0	16.0
13	NO2+NO3 (mg N/L)	0.80	0.85	0.84
14	NO2-N (mgN/L)	0.00	0.01	0.00
15	NO3-N (mgN/L)	0.80	0.84	0.84
16	o-PO4-P (mg P/L)	0.124	0.041	1.250
17	SiO2 (mg/L)	21.9	19.8	28.2
18	SO4 (mg/L)	15.0	15.1	13.5
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.4	4.6	1.3
2	COD (mg/L)		45.0	16.0
3	DO (mg/L)	5.0	3.1	3.0
4	DO_SAT% (%)	58	39	39
5	FCol-MPN (MPN/100mL)			280
6	Tcol-MPN (MPN/100mL)			560
	TRACE & TOXIC			
1	As (μg/L)		1.0	
2	Cd (μg/L)		0.0	
3	Cr (μg/L)		0.7	
4	Cu (μg/L)		0.1	
5	Ni (μg/L)		1.5	
6	Pb (μg/L)		0.9	
7	Zn (μg/L)		0.3	
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	95	75	83
2	HAR_Total (mgCaCO3/L)	176	168	160
3	Na% (%)	20	23	18
4	RSC (-)	0.1	0.0	0.0
5	SAR (-)	0.8	0.6	0.6
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : Akkihebbal (CCR00B7)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	101.6	0.000	8.762
2	EC_GEN (µmho/cm)	11	421	129	351
3	pH_GEN (pH units)	11	7.9	7.5	7.7
4	TDS (mg/L)	11	266	82	217
5	Temp (deg C)	11	29.0	22.0	26
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	11	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	11	171	40	143
3	B (mg/L)	11	0.53	0.00	0.15
4	Ca (mg/L)	11	38	9	29
5	Cl (mg/L)	11	35.1	14.6	22.5
6	CO3 (mg/L)	11	0.0	0.0	0
7	F (mg/L)	11	0.38	0.08	0.22
8	Fe (mg/L)	11	0.1	0.0	0
9	HCO3 (mg/L)	11	209	48	175
10	K (mg/L)	11	3.8	1.5	2.1
11	Mg (mg/L)	11	22.4	5.3	18
12	Na (mg/L)	11	25.0	10.0	16.4
13	NO2+NO3 (mg N/L)	11	1.04	0.27	0.75
14	NO2-N (mgN/L)	11	0.01	0.00	0.01
15	NO3-N (mgN/L)	11	1.02	0.27	0.74
16	o-PO4-P (mg P/L)	11	1.250	0.000	0.175
17	SiO2 (mg/L)	11	28.2	2.2	17.9
18	SO4 (mg/L)	11	15.1	6.0	11.5
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	11	4.6	0.4	1.3
2	COD (mg/L)	2	45.0	16.0	30.5
3	DO (mg/L)	11	6.2	3.0	5
4	DO_SAT% (%)	11	78	39	62
5	Fcol-MPN (MPN/100mL)	1	280	280	280
6	Tcol-MPN (MPN/100mL)	1	560	560	560
	TRACE & TOXIC				
1	As (µg/L)	3	5.0	1.0	2.3
2	Cd (µg/L)	3	0.0	0.0	0
3	Cr (µg/L)	3	11.0	0.7	5.5
4	Cu (µg/L)	3	2.0	0.1	1.3
5	Ni (µg/L)	2	4.3	1.5	2.9
6	Pb (µg/L)	3	2.6	0.9	1.5
7	Zn (µg/L)	3	8.0	0.3	3.6
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	11	95	22	72
2	HAR_Total (mgCaCO3/L)	11	473	44	175
3	Na% (%)	11	32	6	19
4	RSC (-)	11	0.4	0.0	0.1
5	SAR (-)	11	0.9	0.3	0.6
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Akkihebbal (CCR00B7)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	98.26	85.25	56.02	71.14	54.42
2	EC_GEN (µmho/cm)	242	247	253	287	237
3	pH_GEN (pH units)	7.8	7.9	7.9	7.9	7.4
4	TDS (mg/L)					
5	Temp (deg C)	25.4	25.5	25.2	25.7	25.9
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	51	98	108	120	97
3	B (mg/L)	0.02	0.29	0.04	0.05	0.00
4	Ca (mg/L)	16	23	23	25	21
5	Cl (mg/L)	27.7	14.8	15.5	18.1	14.9
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.20	0.12	0.17	0.14	0.21
8	Fe (mg/L)	0.2	0.1	0.1	0.0	0.0
9	HCO3 (mg/L)	62	120	132	147	118
10	K (mg/L)	2.1	1.3	1.5	1.5	1.4
11	Mg (mg/L)	8.8	9.9	10.9	11.5	9.1
12	Na (mg/L)	20.4	11.2	14.8	16.8	12.1
13	NO2+NO3 (mg N/L)	0.55	0.48	0.57	0.66	0.95
14	NO2-N (mgN/L)	0.00	0.02	0.01	0.00	0.01
15	NO3-N (mgN/L)	0.55	0.47	0.56	0.66	0.94
16	o-PO4-P (mg P/L)	0.253	0.000	0.019	0.006	0.005
17	SiO2 (mg/L)	13.6	15.8	15.0	16.0	14.6
18	SO4 (mg/L)	22.9	3.1	3.5	4.2	3.5
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)			1.6		0.8
2	COD (mg/L)					
3	DO (mg/L)			5.6	5.9	5.5
4	DO_SAT% (%)			68	72	67
5	Fcol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	41	57	58	63	53
2	HAR_Total (mgCaCO3/L)	78	98	103	111	91
3	Na% (%)	37	20	23	25	22
4	RSC (-)	0.0	0.1	0.1	0.2	0.1
5	SAR (-)	1.1	0.5	0.6	0.7	0.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Akkihebbal (CCR00B7)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	21.34	373.1	7.665	12.69	2.889
2	EC_GEN (µmho/cm)	265	249	319	345	294
3	pH_GEN (pH units)	7.7	7.6	7.9	7.7	7.4
4	TDS (mg/L)					158
5	Temp (deg C)	26.8	26.3	26.8	26.2	27.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	1.8	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	106	101	131	141	113
3	B (mg/L)		0.02	0.25	0.60	0.12
4	Ca (mg/L)	25	24	29	32	28
5	Cl (mg/L)	18.1	15.3	19.2	22.7	21.9
6	CO3 (mg/L)	0.0	0.0	2.2	0.0	0.0
7	F (mg/L)	0.20	0.12	0.19	0.26	
8	Fe (mg/L)		0.2	0.1	0.1	0.2
9	HCO3 (mg/L)	130	123	156	172	138
10	K (mg/L)	1.8	1.9	2.7	1.8	2.3
11	Mg (mg/L)	8.6	9.5	14.0	14.8	11.8
12	Na (mg/L)	15.4	13.5	15.8	16.3	15.0
13	NO2+NO3 (mg N/L)	1.06	1.41	1.52	0.62	1.29
14	NO2-N (mgN/L)	0.01	0.02	0.04	0.05	0.07
15	NO3-N (mgN/L)	1.05	1.39	1.49	0.57	1.23
16	o-PO4-P (mg P/L)		0.221	0.027	0.110	0.031
17	SiO2 (mg/L)		15.3	13.2	26.1	23.4
18	SO4 (mg/L)	3.1	6.5	6.9	6.4	6.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.7	1.1	1.9	0.6	1.3
2	COD (mg/L)					
3	DO (mg/L)	5.9	6.5	6.2	6.2	5.8
4	DO_SAT% (%)	74	80	77	77	73
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)	0.7	4.2			
2	Cd (µg/L)		0.1			
3	Cr (µg/L)	2.6	2.3			
4	Cu (µg/L)	17.6	0.9			
5	Ni (µg/L)	1.5	9.2			
6	Pb (µg/L)		0.0			
7	Zn (µg/L)		0.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	62	59	74	79	69
2	HAR_Total (mgCaCO3/L)	98	99	132	141	118
3	Na% (%)	25	24	20	19	21
4	RSC (-)	0.2	0.1	0.1	0.1	0.2
5	SAR (-)	0.7	0.6	0.6	0.6	0.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Akkihebbal (CCR00B7)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	29.13	51.25	36.12	49.69	33.84
2	EC_GEN (µmho/cm)	291	353	341	276	322
3	pH_GEN (pH units)	7.8	8.1	7.9	7.9	8.0
4	TDS (mg/L)	186				
5	Temp (deg C)	27.9	23.1	23.1	24.4	23.6
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	113	64	153	123	138
3	B (mg/L)	0.25	0.04	0.11	0.06	0.04
4	Ca (mg/L)	21	20	31	26	28
5	Cl (mg/L)	22.0	42.9	16.9	15.5	18.9
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.15	0.17	0.18	1.00	0.25
8	Fe (mg/L)	0.1	0.2	0.1	0.1	0.0
9	HCO3 (mg/L)	138	78	187	150	168
10	K (mg/L)	2.5	2.3	1.7	1.3	1.6
11	Mg (mg/L)	13.7	14.7	15.3	11.9	12.9
12	Na (mg/L)	16.5	29.7	19.0	16.5	19.1
13	NO2+NO3 (mg N/L)	0.90	0.68	0.54	0.46	0.67
14	NO2-N (mgN/L)	0.01	0.00	0.01	0.01	0.02
15	NO3-N (mgN/L)	0.90	0.68	0.53	0.44	0.64
16	o-PO4-P (mg P/L)	0.054	0.362	0.044	0.142	0.010
17	SiO2 (mg/L)	16.4	19.1	18.6	17.0	15.4
18	SO4 (mg/L)	10.2	39.5	3.8	3.3	5.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.0			0.5	0.8
2	COD (mg/L)					
3	DO (mg/L)	5.2			6.1	6.5
4	DO_SAT% (%)	66			72	77
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)	1.0				
2	Cd (µg/L)	0.0				
3	Cr (µg/L)	11.0				
4	Cu (µg/L)	2.0				
5	Ni (µg/L)					
6	Pb (µg/L)	1.0				
7	Zn (µg/L)	8.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	54	50	77	64	70
2	HAR_Total (mgCaCO3/L)	111	111	141	114	124
3	Na% (%)	25	36	23	24	25
4	RSC (-)	0.1	0.0	0.3	0.2	0.3
5	SAR (-)	0.7	1.2	0.7	0.7	0.7
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Akkihebbal (CCR00B7)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	45.79	19.51	17.13	18.54	19.89
2	EC_GEN (µmho/cm)	293	327	336	337	381
3	pH_GEN (pH units)	7.3	7.7	7.9	8.1	7.9
4	TDS (mg/L)					190
5	Temp (deg C)	24.0	23.0	24.3	23.8	24.0
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	127	141	153	144	167
3	B (mg/L)			0.08	0.24	0.28
4	Ca (mg/L)	25	34	28	34	36
5	Cl (mg/L)	16.8	18.3	14.7	17.9	22.9
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)		0.27	0.28	0.26	0.31
8	Fe (mg/L)	0.1		0.0	0.1	0.1
9	HCO3 (mg/L)	155	172	187	176	203
10	K (mg/L)	1.4	1.5	1.4	3.9	1.6
11	Mg (mg/L)	12.6	12.2	12.4	14.1	15.8
12	Na (mg/L)	17.0	16.9	22.2	15.4	19.8
13	NO2+NO3 (mg N/L)	0.89	1.07	1.24	1.09	0.67
14	NO2-N (mgN/L)	0.00	0.01	0.04	0.01	0.03
15	NO3-N (mgN/L)	0.89	1.05	1.20	1.09	0.64
16	o-PO4-P (mg P/L)	0.005		0.052	0.021	0.256
17	SiO2 (mg/L)	12.8		19.9	12.7	21.6
18	SO4 (mg/L)	3.8	4.3	3.7	5.5	5.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.6	0.4	0.8	1.1	0.9
2	COD (mg/L)					
3	DO (mg/L)	6.1	5.8	6.4	7.0	6.6
4	DO_SAT% (%)	72	67	76	83	79
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)	0.3	8.0			0.4
2	Cd (µg/L)	0.3	0.0		0.1	0.0
3	Cr (µg/L)	3.1	0.4		2.6	0.1
4	Cu (µg/L)	47.6	29.7		2.6	0.3
5	Ni (µg/L)	2.8	7.5		0.9	1.4
6	Pb (µg/L)	0.3			1.0	0.6
7	Zn (µg/L)				9.8	3.1
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	62	84	71	85	90
2	HAR_Total (mgCaCO3/L)	115	135	123	144	156
3	Na% (%)	24	21	28	18	22
4	RSC (-)	0.3	0.1	0.6	0.0	0.2
5	SAR (-)	0.7	0.6	0.9	0.6	0.7
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Akkihebbal (CCR00B7)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	36.29	3.263	19.43	5.163	6.436
2	EC_GEN (µmho/cm)	320	370	311	365	306
3	pH_GEN (pH units)	7.8	7.8	7.8	7.8	7.8
4	TDS (mg/L)	169	226			
5	Temp (deg C)	24.3	23.8	27.5	25.7	25.7
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	129	159	70	158	128
3	B (mg/L)	0.46	0.12	0.07	0.09	0.07
4	Ca (mg/L)	23	33	21	33	26
5	Cl (mg/L)	18.7	19.8	33.6	18.5	19.9
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)		0.27	0.29	0.22	0.20
8	Fe (mg/L)	0.1	0.0	0.3	0.1	0.1
9	HCO3 (mg/L)	158	194	86	193	156
10	K (mg/L)	1.7	1.7	1.4	1.8	1.8
11	Mg (mg/L)	17.5	20.6	11.5	15.9	13.3
12	Na (mg/L)	14.7	13.8	24.6	21.2	18.1
13	NO2+NO3 (mg N/L)	0.94	0.53	0.73	0.55	0.56
14	NO2-N (mgN/L)	0.01	0.01	0.00	0.00	0.01
15	NO3-N (mgN/L)	0.93	0.52	0.73	0.55	0.55
16	o-PO4-P (mg P/L)	0.031	0.072	0.424	0.014	0.014
17	SiO2 (mg/L)	20.2	15.4	26.7	19.9	17.7
18	SO4 (mg/L)	11.6	10.5	26.6	5.1	3.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.2	0.9			0.6
2	COD (mg/L)					
3	DO (mg/L)	6.4	5.9			5.2
4	DO_SAT% (%)	77	70			63
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)	0.1	5.0	7.6		
2	Cd (µg/L)	0.0	0.0	1.0		
3	Cr (µg/L)	0.4	4.8			
4	Cu (µg/L)	0.8	1.9	3.0		
5	Ni (µg/L)	0.4	4.3		12.9	
6	Pb (µg/L)	0.9	2.6	1.6		
7	Zn (µg/L)	3.0	2.5	32.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	58	82	53	83	65
2	HAR_Total (mgCaCO3/L)	130	244	101	149	121
3	Na% (%)	21	13	33	24	24
4	RSC (-)	0.1	0.0	0.0	0.2	0.2
5	SAR (-)	0.6	0.4	1.1	0.8	0.7
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Akkihebbal (CCR00B7)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	26.21	5.573	0.957	1.535
2	EC_GEN (µmho/cm)	339	289	341	405
3	pH_GEN (pH units)	7.5	7.3	8.0	7.7
4	TDS (mg/L)				
5	Temp (deg C)	25.3	26.7	25.7	26.8
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	130	126	133	180
3	B (mg/L)	0.06		0.00	0.10
4	Ca (mg/L)	28	24	30	34
5	Cl (mg/L)	17.3	17.2	22.5	20.5
6	CO3 (mg/L)	0.0	0.0	0.0	0.0
7	F (mg/L)	0.24	0.21		0.28
8	Fe (mg/L)	0.1		0.1	0.1
9	HCO3 (mg/L)	159	153	163	220
10	K (mg/L)	1.6	2.0	2.8	2.0
11	Mg (mg/L)	12.6	11.5	14.9	15.9
12	Na (mg/L)	18.5	16.5	16.5	22.6
13	NO2+NO3 (mg N/L)	0.73	1.19	1.04	1.14
14	NO2-N (mgN/L)	0.02	0.00	0.00	0.03
15	NO3-N (mgN/L)	0.71	1.19	1.04	1.11
16	o-PO4-P (mg P/L)	0.016		0.017	0.041
17	SiO2 (mg/L)	16.0		20.2	18.0
18	SO4 (mg/L)	5.5	3.0	5.6	5.7
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)		0.5	1.1	1.6
2	COD (mg/L)				
3	DO (mg/L)	5.6	4.8	5.6	6.2
4	DO_SAT% (%)	68	61	68	78
5	FCol-MPN (MPN/100mL)				
6	Tcol-MPN (MPN/100mL)				
	TRACE & TOXIC				
1	As (µg/L)	1.6	0.8	4.5	2.7
2	Cd (µg/L)		0.2	0.2	0.0
3	Cr (µg/L)	0.9	2.8	0.2	0.5
4	Cu (µg/L)	3.5	6.8	1.1	2.8
5	Ni (µg/L)		0.9	2.9	9.3
6	Pb (µg/L)	0.5	3.6	3.5	1.7
7	Zn (µg/L)		20.0	0.3	16.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	69	61	75	85
2	HAR_Total (mgCaCO3/L)	122	109	137	151
3	Na% (%)	25	25	20	24
4	RSC (-)	0.2	0.4	0.1	0.6
5	SAR (-)	0.7	0.7	0.6	0.8
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Akkihebbal (CCR00B7)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	2.752	0.980	2.447	1.024
2	EC_GEN (µmho/cm)	415	417	151	406
3	pH_GEN (pH units)	7.8	7.4	7.9	7.6
4	TDS (mg/L)		197	96	247
5	Temp (deg C)	27.7	29.3	24.0	26.5
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	173	174	67	162
3	B (mg/L)	0.33	0.18	0.00	0.06
4	Ca (mg/L)	36	34	15	34
5	Cl (mg/L)	25.4	26.9	7.1	26.6
6	CO3 (mg/L)	0.0	0.0	0.0	0.0
7	F (mg/L)	0.38		0.11	0.27
8	Fe (mg/L)	0.1	0.0	0.0	0.0
9	HCO3 (mg/L)	211	212	82	197
10	K (mg/L)	3.9	2.8	1.5	1.9
11	Mg (mg/L)	17.8	19.8	6.4	20.1
12	Na (mg/L)	19.9	23.6	6.0	19.9
13	NO2+NO3 (mg N/L)	0.67	1.29	0.52	0.83
14	NO2-N (mgN/L)	0.01	0.02	0.03	0.00
15	NO3-N (mgN/L)	0.66	1.27	0.49	0.83
16	o-PO4-P (mg P/L)	0.021	0.021	0.052	0.472
17	SiO2 (mg/L)	13.7	33.2	12.7	23.3
18	SO4 (mg/L)	6.7	6.5	4.0	14.5
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	0.9	0.9	2.3	2.1
2	COD (mg/L)				30.5
3	DO (mg/L)	5.3	4.0	6.9	3.7
4	DO_SAT% (%)	66	52	82	45
5	FCol-MPN (MPN/100mL)				280
6	Tcol-MPN (MPN/100mL)				560
	TRACE & TOXIC				
1	As (µg/L)		3.6		1.0
2	Cd (µg/L)				0.0
3	Cr (µg/L)		0.6		0.7
4	Cu (µg/L)		0.5		0.1
5	Ni (µg/L)		0.9		1.5
6	Pb (µg/L)				0.9
7	Zn (µg/L)		5.9		0.3
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	91	85	37	84
2	HAR_Total (mgCaCO3/L)	165	168	63	168
3	Na% (%)	20	23	17	20
4	RSC (-)	0.2	0.1	0.1	0.0
5	SAR (-)	0.7	0.8	0.3	0.7
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: M.H.HALLI	Code	: CCR00M8
State	: Karnataka	District	Hassan
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Hemavathi	Sub Tributary	: -
Sub-Sub Tributary	: -	Local River	: Hemavathi
Division	: Cauvery Division, Bangalore	Sub-Division	: Upper Cauvery SD, Bangalore
Drainage Area	: 3050 Sq. Km.	Bank	: Left
Latitude	: 12°50'00"	Longitude	: 76°08'00"
Zero of Gauge (m)	: 838.000 (m.s.l)	04/10/1977	
	Opening Date	Closing Date	
Gauge	: 04/10/1977		
Discharge	: 16/10/1978		
Sediment	: 01/06/1994		
Water Quality	: 01/12/1980		

Water Quality Datasheet for the period : 2017-2018

Station Name : M.H.Halli (CCR00M8)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_ Cod (-)			
3	EC_GEN (µmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SiO2 (mg/L)			
18	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : M.H.Halli (CCR00M8)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	04/09/2017	01/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	56.69	No Flow	26.33
2	Colour_Cod (-)	Clear		Clear
3	EC_GEN (µmho/cm)	80		100
4	Odour_Code (-)	odour free		odour free
5	pH_GEN (pH units)	7.5		7.3
6	TDS (mg/L)	48		68
7	Temp (deg C)	26.0		26.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0		0.0
2	ALK-TOT (mgCaCO3/L)	28		39
3	B (mg/L)	0.68		0.01
4	Ca (mg/L)	10		7
5	Cl (mg/L)	7.5		0.2
6	CO3 (mg/L)	0.0		0.0
7	F (mg/L)	0.06		0.11
8	Fe (mg/L)	0.3		0.4
9	HCO3 (mg/L)	34		47
10	K (mg/L)	1.2		1.2
11	Mg (mg/L)	1.6		6.2
12	Na (mg/L)	4.1		4.0
13	NO2+NO3 (mg N/L)	0.50		0.55
14	NO2-N (mgN/L)	0.01		0.01
15	NO3-N (mgN/L)	0.49		0.53
16	o-PO4-P (mg P/L)	0.000		0.000
17	SiO2 (mg/L)	1.0		10.9
18	SO4 (mg/L)	3.7		4.0
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.8		0.4
2	COD (mg/L)			
3	DO (mg/L)	6.2		5.3
4	DO_SAT% (%)	76		65
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	25		19
2	HAR_Total (mgCaCO3/L)	32		44
3	Na% (%)	21		16
4	RSC (-)	0.0		0.0
5	SAR (-)	0.3		0.3
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : M.H.Halli (CCR00M8)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	04/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	18.15	13.92	18.54
2	Colour_Cod (-)	Clear	Clear	
3	EC_GEN (µmho/cm)		113	
4	Odour_Code (-)	odour free	odour free	
5	pH_GEN (pH units)		7.3	
6	TDS (mg/L)		85	
7	Temp (deg C)		25.5	
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	
2	ALK-TOT (mgCaCO3/L)		27	
3	B (mg/L)		0.00	
4	Ca (mg/L)		10	
5	Cl (mg/L)		18.8	
6	CO3 (mg/L)		0.0	
7	F (mg/L)		0.08	
8	Fe (mg/L)		0.1	
9	HCO3 (mg/L)		33	
10	K (mg/L)		1.2	
11	Mg (mg/L)		0.9	
12	Na (mg/L)		14.0	
13	NO2+NO3 (mg N/L)		0.38	
14	NO2-N (mgN/L)		0.01	
15	NO3-N (mgN/L)		0.36	
16	o-PO4-P (mg P/L)		0.000	
17	SiO2 (mg/L)		9.1	
18	SO4 (mg/L)		4.0	
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		0.5	
2	COD (mg/L)			
3	DO (mg/L)		5.5	
4	DO_SAT% (%)		67	
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)	3.2		
2	Cd (µg/L)	0.0		
3	Cr (µg/L)	5.4		
4	Cu (µg/L)	1.1		
5	Ni (µg/L)	4.4		
6	Pb (µg/L)	4.6		
7	Zn (µg/L)	2.7		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		26	
2	HAR_Total (mgCaCO3/L)		30	
3	Na% (%)		50	
4	RSC (-)		0.0	
5	SAR (-)		1.1	
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : M.H.Halli (CCR00M8)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	01/03/2018	01/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	15.71	No Flow	11.96
2	Colour_Cod (-)	Clear		Clear
3	EC_GEN (µmho/cm)	103		104
4	Odour_Code (-)	odour free		odour free
5	pH_GEN (pH units)	6.9		7.2
6	TDS (mg/L)	72		60
7	Temp (deg C)	26.0		26.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0		0.0
2	ALK-TOT (mgCaCO3/L)	39		42
3	B (mg/L)	0.00		0.10
4	Ca (mg/L)	13		10
5	Cl (mg/L)	7.5		7.8
6	CO3 (mg/L)	0.0		0.0
7	F (mg/L)	0.06		0.08
8	Fe (mg/L)	0.1		0.1
9	HCO3 (mg/L)	47		51
10	K (mg/L)	1.4		1.2
11	Mg (mg/L)	2.8		4.6
12	Na (mg/L)	4.8		4.0
13	NO2+NO3 (mg N/L)	0.60		0.24
14	NO2-N (mgN/L)	0.00		0.00
15	NO3-N (mgN/L)	0.60		0.24
16	o-PO4-P (mg P/L)	0.083		0.000
17	SiO2 (mg/L)	12.3		13.6
18	SO4 (mg/L)	3.0		0.6
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.8		0.2
2	COD (mg/L)			11.0
3	DO (mg/L)	5.0		5.9
4	DO_SAT% (%)	62		73
5	FCol-MPN (MPN/100mL)			98
6	Tcol-MPN (MPN/100mL)			564
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	32		24
2	HAR_Total (mgCaCO3/L)	43		43
3	Na% (%)	19		16
4	RSC (-)	0.0		0.0
5	SAR (-)	0.3		0.3
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : M.H.Halli (CCR00M8)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

Sub-Division : Upper Cauvery SD, Bangalore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	66.47	0.000	14.96
2	EC_GEN (µmho/cm)	5	113	80	100
3	pH_GEN (pH units)	5	7.5	6.9	7.2
4	TDS (mg/L)	5	85	48	67
5	Temp (deg C)	5	26.5	25.5	26.1
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	5	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	5	42	27	35
3	B (mg/L)	5	0.68	0.00	0.16
4	Ca (mg/L)	5	13	7	10
5	Cl (mg/L)	5	18.8	0.2	8.3
6	CO3 (mg/L)	5	0.0	0.0	0
7	F (mg/L)	5	0.11	0.06	0.07
8	Fe (mg/L)	5	0.4	0.1	0.2
9	HCO3 (mg/L)	5	51	33	43
10	K (mg/L)	5	1.4	1.2	1.3
11	Mg (mg/L)	5	6.2	0.9	3.2
12	Na (mg/L)	5	14.0	4.0	6.2
13	NO2+NO3 (mg N/L)	5	0.60	0.24	0.45
14	NO2-N (mgN/L)	5	0.01	0.00	0.01
15	NO3-N (mgN/L)	5	0.60	0.24	0.45
16	o-PO4-P (mg P/L)	5	0.083	0.000	0.017
17	SiO2 (mg/L)	5	13.6	1.0	9.4
18	SO4 (mg/L)	5	4.0	0.6	3
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	5	0.8	0.2	0.5
2	COD (mg/L)	1	11.0	11.0	11
3	DO (mg/L)	5	6.2	5.0	5.6
4	DO_SAT% (%)	5	76	62	69
5	FCol-MPN (MPN/100mL)	1	98	98	98
6	Tcol-MPN (MPN/100mL)	1	564	564	564
	TRACE & TOXIC				
1	As (µg/L)	1	3.2	3.2	3.2
2	Cd (µg/L)	1	0.0	0.0	0
3	Cr (µg/L)	1	5.4	5.4	5.4
4	Cu (µg/L)	1	1.1	1.1	1.1
5	Ni (µg/L)	1	4.4	4.4	4.4
6	Pb (µg/L)	1	4.6	4.6	4.6
7	Zn (µg/L)	1	2.7	2.7	2.7
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	5	32	19	25
2	HAR_Total (mgCaCO3/L)	5	44	30	38
3	Na% (%)	5	50	16	24
4	RSC (-)	5	0.0	0.0	0
5	SAR (-)	5	1.1	0.3	0.5
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : M.H.Halli (CCR00M8)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	37.04	197.3	22.66	13.33	50.90
2	EC_GEN (µmho/cm)	111	162	143	192	121
3	pH_GEN (pH units)	7.5	7.8	7.6	7.5	6.8
4	TDS (mg/L)					
5	Temp (deg C)	24.0	25.8	24.5	24.8	26.3
6	TS (mg/L)					
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	30	49	52	74	44
3	B (mg/L)	0.00		0.02		0.01
4	Ca (mg/L)	8	14	12	18	11
5	Cl (mg/L)	14.9	17.4	12.7	17.2	10.8
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.29	0.06	0.11	0.12	0.15
8	Fe (mg/L)	0.2		0.1	0.1	0.0
9	HCO3 (mg/L)	37	59	63	90	54
10	K (mg/L)	2.5	2.0	1.4	1.5	1.3
11	Mg (mg/L)	2.9	4.9	5.3	6.8	4.4
12	Na (mg/L)	9.7	12.3	7.9	9.6	5.6
13	NO2+NO3 (mg N/L)	0.06	0.57	0.55	0.64	0.78
14	NO2-N (mgN/L)	0.00	0.01	0.00	0.00	0.07
15	NO3-N (mgN/L)	0.06	0.56	0.55	0.64	0.71
16	o-PO4-P (mg P/L)	0.165		0.005	0.016	0.016
17	SiO2 (mg/L)	2.4		10.6	11.5	11.6
18	SO4 (mg/L)	0.6	2.9	2.9	3.6	2.7
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	2.1	0.6	0.8		0.4
2	COD (mg/L)					
3	DO (mg/L)	6.0	4.9	5.8	5.8	5.2
4	DO_SAT% (%)	71	60	69	70	64
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	20	34	30	46	28
2	HAR_Total (mgCaCO3/L)	31	54	52	74	46
3	Na% (%)	38	34	24	21	20
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.8	0.8	0.5	0.5	0.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : M.H.Halli (CCR00M8)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	39.00	562.6	96.43	21.79	18.23
2	EC_GEN (µmho/cm)	134	176	120	151	106
3	pH_GEN (pH units)	7.0	7.0	7.1	6.8	7.0
4	TDS (mg/L)					65
5	Temp (deg C)	26.0	26.0	26.0	27.0	26.0
6	TS (mg/L)					
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	44	64	37	51	28
3	B (mg/L)		0.01	0.01	1.67	0.02
4	Ca (mg/L)	12	16	11	14	22
5	Cl (mg/L)	14.0	12.1	11.9	15.6	11.0
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)	0.12	0.19	0.42	0.28	
8	Fe (mg/L)		0.1	0.1	0.1	0.0
9	HCO3 (mg/L)	54	77	45	63	34
10	K (mg/L)	1.4	1.4	1.4	1.4	1.3
11	Mg (mg/L)	5.1	6.8	4.9	5.8	0.0
12	Na (mg/L)	6.3	8.3	5.0	6.1	4.4
13	NO2+NO3 (mg N/L)	0.74	1.54	1.01	0.80	1.23
14	NO2-N (mgN/L)	0.01	0.06	0.06	0.06	0.10
15	NO3-N (mgN/L)	0.74	1.49	0.95	0.74	1.13
16	o-PO4-P (mg P/L)		0.072	0.057	0.796	0.000
17	SiO2 (mg/L)		8.1	10.8	30.7	17.0
18	SO4 (mg/L)	4.0	8.9	4.2	3.7	8.8
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.8	1.5	0.5	0.7	0.3
2	COD (mg/L)					
3	DO (mg/L)	5.4	5.9	5.3	3.2	7.4
4	DO_SAT% (%)	66	73	64	40	91
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)		0.0			
2	Cd (µg/L)		0.0			
3	Cr (µg/L)	9.2	1.4			
4	Cu (µg/L)	9.4	1.0			
5	Ni (µg/L)	0.3	8.9			
6	Pb (µg/L)		0.9			
7	Zn (µg/L)		3.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	29	40	28	36	55
2	HAR_Total (mgCaCO3/L)	50	68	48	60	55
3	Na% (%)	21	21	18	18	14
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.4	0.4	0.3	0.3	0.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : M.H.Halli (CCR00M8)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	56.69	15.29	20.26	29.22	21.72
2	EC_GEN (µmho/cm)	80	206	121	108	165
3	pH_GEN (pH units)	7.5	7.7	8.2	7.4	7.5
4	TDS (mg/L)	48				
5	Temp (deg C)	26.0	25.0	25.5	24.3	25.3
6	TS (mg/L)					
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	3.6	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	28	46	39	39	38
3	B (mg/L)	0.68	0.00	0.10	0.04	0.04
4	Ca (mg/L)	10	10	10	10	15
5	Cl (mg/L)	7.5	34.5	12.4	11.7	13.8
6	CO3 (mg/L)	0.0	0.0	4.3	0.0	0.0
7	F (mg/L)	0.06	0.06	0.11	0.10	0.11
8	Fe (mg/L)	0.3	0.2	0.1	0.0	0.0
9	HCO3 (mg/L)	34	56	39	48	75
10	K (mg/L)	1.2	2.7	1.6	1.3	1.4
11	Mg (mg/L)	1.6	4.7	3.4	4.4	6.3
12	Na (mg/L)	4.1	25.5	6.9	5.5	6.8
13	NO2+NO3 (mg N/L)	0.50	0.06	0.48	0.58	0.77
14	NO2-N (mgN/L)	0.01	0.00	0.03	0.01	0.00
15	NO3-N (mgN/L)	0.49	0.06	0.45	0.57	0.77
16	o-PO4-P (mg P/L)	0.000	0.076	0.026	0.010	0.005
17	SiO2 (mg/L)	1.0	5.8	10.6	12.2	11.6
18	SO4 (mg/L)	3.7	4.5	1.3	1.6	3.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.8	1.5	2.5	1.1	0.8
2	COD (mg/L)					
3	DO (mg/L)	6.2	5.7	6.3	6.5	5.9
4	DO_SAT% (%)	76	69	77	77	72
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	25	26	26	24	37
2	HAR_Total (mgCaCO3/L)	32	45	40	42	63
3	Na% (%)	21	54	26	22	19
4	RSC (-)	0.0	0.1	0.0	0.0	0.0
5	SAR (-)	0.3	1.7	0.5	0.4	0.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : M.H.Halli (CCR00M8)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	23.62	7.858	12.42	12.36	11.11
2	EC_GEN (µmho/cm)	151	158	189	180	172
3	pH_GEN (pH units)	7.0	7.1	7.1	7.5	6.8
4	TDS (mg/L)					80
5	Temp (deg C)	26.0	25.8	26.0	26.5	26.3
6	TS (mg/L)					
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	55	54	77	68	67
3	B (mg/L)	0.00		0.02	0.16	0.23
4	Ca (mg/L)	14	14	21	18	16
5	Cl (mg/L)	11.5	13.1	13.8	11.9	9.9
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)		0.15	0.17	0.16	0.16
8	Fe (mg/L)	0.0		0.1	0.0	0.1
9	HCO3 (mg/L)	67	66	93	83	81
10	K (mg/L)	1.3	1.3	1.0	2.9	1.5
11	Mg (mg/L)	5.8	6.3	5.8	6.8	6.8
12	Na (mg/L)	6.5	7.0	8.5	6.6	7.0
13	NO2+NO3 (mg N/L)	1.02	0.94	1.33	1.51	0.59
14	NO2-N (mgN/L)	0.01	0.01	0.06	0.01	0.00
15	NO3-N (mgN/L)	1.01	0.93	1.28	1.50	0.59
16	o-PO4-P (mg P/L)	0.010		0.010	0.057	0.553
17	SiO2 (mg/L)	11.1		18.8	11.4	17.7
18	SO4 (mg/L)	2.8	3.5	2.0	6.7	3.5
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.0	0.6	1.0	0.9	1.0
2	COD (mg/L)					
3	DO (mg/L)	6.2	5.9	6.6	5.6	4.1
4	DO_SAT% (%)	77	72	81	69	50
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)	0.3	0.3			
2	Cd (µg/L)	0.9	0.0		0.1	
3	Cr (µg/L)	1.0	0.4		0.5	
4	Cu (µg/L)	21.8	1.2		4.1	
5	Ni (µg/L)	1.4	5.9		2.1	
6	Pb (µg/L)	31.8			2.9	
7	Zn (µg/L)				8.3	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	34	34	52	46	40
2	HAR_Total (mgCaCO3/L)	58	60	76	74	68
3	Na% (%)	19	20	19	16	18
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.4	0.4	0.4	0.3	0.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : M.H.Halli (CCR00M8)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	28.52	19.47	18.04	7.115	15.59
2	EC_GEN (µmho/cm)	89	107	190	136	149
3	pH_GEN (pH units)	7.6	7.3	7.7	7.4	7.5
4	TDS (mg/L)	47	77			
5	Temp (deg C)	26.0	26.0	25.0	25.3	25.5
6	TS (mg/L)					
	CHEMICAL					
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	23	33	40	50	55
3	B (mg/L)	0.09	0.00	0.04	0.07	0.03
4	Ca (mg/L)	10	9	12	12	14
5	Cl (mg/L)	11.2	9.5	23.5	13.3	15.4
6	CO3 (mg/L)	0.0	0.0	0.0	0.0	0.0
7	F (mg/L)		0.09	0.58	0.09	0.09
8	Fe (mg/L)	0.0	0.2	0.2	0.1	0.0
9	HCO3 (mg/L)	29	40	48	61	67
10	K (mg/L)	1.2	1.2	3.8	1.6	1.6
11	Mg (mg/L)	3.0	3.5	6.2	4.9	5.3
12	Na (mg/L)	4.4	9.0	16.4	8.0	8.2
13	NO2+NO3 (mg N/L)	0.78	0.46	0.49	0.55	0.34
14	NO2-N (mgN/L)	0.01	0.01	0.00	0.06	0.02
15	NO3-N (mgN/L)	0.77	0.45	0.49	0.50	0.32
16	o-PO4-P (mg P/L)	0.057	0.000	0.920	0.031	0.010
17	SiO2 (mg/L)	8.8	10.0	9.8	12.3	12.7
18	SO4 (mg/L)	5.0	4.0	20.8	1.8	1.8
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.8	0.5	1.4	1.7	1.5
2	COD (mg/L)					
3	DO (mg/L)	6.8	5.4	7.0	5.8	5.7
4	DO_SAT% (%)	83	66	85	70	70
5	FCol-MPN (MPN/100mL)					
6	Tcol-MPN (MPN/100mL)					
	TRACE & TOXIC					
1	As (µg/L)		3.2	6.6		
2	Cd (µg/L)		0.0	1.0		
3	Cr (µg/L)		5.4			
4	Cu (µg/L)		1.1	3.0	1.7	
5	Ni (µg/L)		4.4			
6	Pb (µg/L)		4.6	9.6		
7	Zn (µg/L)		2.7	41.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	24	22	29	30	34
2	HAR_Total (mgCaCO3/L)	36	37	55	50	56
3	Na% (%)	20	33	34	25	24
4	RSC (-)	0.0	0.0	0.1	0.0	0.0
5	SAR (-)	0.3	0.7	1.1	0.5	0.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : M.H.Halli (CCR00M8)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	19.44	5.138	11.44	
2	EC_GEN (µmho/cm)	202	149	135	
3	pH_GEN (pH units)	7.2	6.8	7.1	
4	TDS (mg/L)				
5	Temp (deg C)	25.3	25.8	26.8	
6	TS (mg/L)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	
2	ALK-TOT (mgCaCO3/L)	74	49	46	
3	B (mg/L)	0.04		0.00	
4	Ca (mg/L)	18	11	14	
5	Cl (mg/L)	16.9	16.2	13.5	
6	CO3 (mg/L)	0.0	0.0	0.0	
7	F (mg/L)	0.17	0.11		
8	Fe (mg/L)	0.0		0.1	
9	HCO3 (mg/L)	91	60	56	
10	K (mg/L)	1.5	1.5	1.4	
11	Mg (mg/L)	7.8	6.3	3.4	
12	Na (mg/L)	8.1	7.8	7.6	
13	NO2+NO3 (mg N/L)	0.62	0.90	0.82	
14	NO2-N (mgN/L)	0.01	0.03	0.02	
15	NO3-N (mgN/L)	0.62	0.87	0.80	
16	o-PO4-P (mg P/L)	0.005		0.078	
17	SiO2 (mg/L)	12.7		11.3	
18	SO4 (mg/L)	3.9	2.4	2.6	
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)		0.2	0.7	
2	COD (mg/L)				
3	DO (mg/L)	4.5	4.4	4.0	
4	DO_SAT% (%)	55	54	49	
5	FCol-MPN (MPN/100mL)				
6	Tcol-MPN (MPN/100mL)				
	TRACE & TOXIC				
1	As (µg/L)	1.3	1.0	5.6	
2	Cd (µg/L)		0.1	0.0	
3	Cr (µg/L)	1.1	10.2	0.3	
4	Cu (µg/L)	3.5	13.9	2.3	
5	Ni (µg/L)		0.2	0.8	
6	Pb (µg/L)	0.1	5.6	4.9	
7	Zn (µg/L)		64.0	11.1	
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	46	28	34	
2	HAR_Total (mgCaCO3/L)	78	54	48	
3	Na% (%)	18	23	25	
4	RSC (-)	0.0	0.0	0.0	
5	SAR (-)	0.4	0.5	0.5	
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : M.H.Halli (CCR00M8)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	11.90	5.695	0.602	13.84
2	EC_GEN (µmho/cm)	258	157	104	104
3	pH_GEN (pH units)	7.5	6.7	7.5	7.0
4	TDS (mg/L)		75	82	66
5	Temp (deg C)	26.0	26.5	26.0	26.3
6	TS (mg/L)				
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	50	49	42	40
3	B (mg/L)	0.36	0.34	0.00	0.05
4	Ca (mg/L)	14	16	8	11
5	Cl (mg/L)	16.7	18.1	5.3	7.6
6	CO3 (mg/L)	0.0	0.0	0.0	0.0
7	F (mg/L)	0.16		0.09	0.07
8	Fe (mg/L)	0.1	0.0	0.1	0.1
9	HCO3 (mg/L)	61	60	51	49
10	K (mg/L)	2.6	1.4	1.4	1.3
11	Mg (mg/L)	4.9	5.8	5.6	3.7
12	Na (mg/L)	8.0	6.3	5.0	4.4
13	NO2+NO3 (mg N/L)	0.63	0.53	0.46	0.42
14	NO2-N (mgN/L)	0.01	0.00	0.00	0.00
15	NO3-N (mgN/L)	0.62	0.53	0.46	0.42
16	o-PO4-P (mg P/L)	0.010	0.000	0.031	0.041
17	SiO2 (mg/L)	5.4	14.3	12.8	12.9
18	SO4 (mg/L)	3.6	3.6	4.0	1.8
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	0.9	0.8	0.6	0.5
2	COD (mg/L)				11.0
3	DO (mg/L)	3.8	5.4	7.4	5.5
4	DO_SAT% (%)	47	66	91	67
5	FCol-MPN (MPN/100mL)				98
6	Tcol-MPN (MPN/100mL)				564
	TRACE & TOXIC				
1	As (µg/L)				
2	Cd (µg/L)				
3	Cr (µg/L)				
4	Cu (µg/L)				
5	Ni (µg/L)				
6	Pb (µg/L)				
7	Zn (µg/L)				
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	36	40	20	28
2	HAR_Total (mgCaCO3/L)	56	64	43	43
3	Na% (%)	23	17	20	18
4	RSC (-)	0.0	0.0	0.0	0.0
5	SAR (-)	0.5	0.3	0.3	0.3
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: THIMMANAHALLI	Code	: CCRI0F7
State	: Karnataka	District	Hassan
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Yagachi	Sub Tributary	:
Sub-Sub Tributary	:	Local River	: Yagachi
Division	: Cauvery Division, Bangalore	Sub-Division	: SWR SD, MANGALORE
Drainage Area	: 1010 Sq. Km.	Bank	: Left
Latitude	: 12°58'57"	Longitude	: 76°02'71"
Zero of Gauge (m)	: 8.000 (m.s.l) 902.425 (m.s.l)	09/12/1998 01/06/2000	- 31/05/2000
	Opening Date	Closing Date	
Gauge	: 09/12/1998		
Discharge	: 29/06/2000		
Sediment	:		
Water Quality	: 02/09/2002		

Water Quality Datasheet for the period : 2017-2018

Station Name : THIMMANAHALLI (CCRI0F7)

Division : Cauvery Division, Bangalore

Local River : Yagachi

Sub-Division : SWR SD MANGALORE

River Water Analysis

S.No	Parameters	01/06/2017	01/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SiO2 (mg/L)			
18	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : THIMMANAHALLI (CCRI0F7)

Division : Cauvery Division, Bangalore

Local River : Yagachi

Sub-Division : SWR SD MANGALORE

River Water Analysis

S.No	Parameters	01/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	0.546	No Flow
2	Colour_Cod (-)		Clear	
3	EC_GEN (µmho/cm)		437	
4	Odour_Code (-)		odour free	
5	pH_GEN (pH units)		7.3	
6	TDS (mg/L)		272	
7	Temp (deg C)		24.0	
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	
2	ALK-TOT (mgCaCO3/L)		154	
3	B (mg/L)		0.39	
4	Ca (mg/L)		39	
5	Cl (mg/L)		48.3	
6	CO3 (mg/L)		0.0	
7	F (mg/L)		0.02	
8	Fe (mg/L)		0.1	
9	HCO3 (mg/L)		187	
10	K (mg/L)		6.9	
11	Mg (mg/L)		14.6	
12	Na (mg/L)		34.0	
13	NO2+NO3 (mg N/L)		0.85	
14	NO2-N (mgN/L)		0.00	
15	NO3-N (mgN/L)		0.85	
16	o-PO4-P (mg P/L)		0.010	
17	SiO2 (mg/L)		19.8	
18	SO4 (mg/L)		10.3	
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		0.2	
2	COD (mg/L)			
3	DO (mg/L)		3.0	
4	DO_SAT% (%)		36	
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		97	
2	HAR_Total (mgCaCO3/L)		158	
3	Na% (%)		31	
4	RSC (-)		0.0	
5	SAR (-)		1.2	
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : THIMMANAHALLI (CCRI0F7)

Division : Cauvery Division, Bangalore

Local River : Yagachi

Sub-Division : SWR SD MANGALORE

River Water Analysis

S.No	Parameters	01/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_GEN (μmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SiO2 (mg/L)			
18	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	COD (mg/L)			
3	DO (mg/L)			
4	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : THIMMANAHALLI (CCRI0F7)

Division : Cauvery Division, Bangalore

Local River : Yagachi

Sub-Division : SWR SD MANGALORE

River Water Analysis

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	0.172	0.044
2	Colour_Cod (-)		Clear	Clear
3	EC_GEN (μmho/cm)		433	222
4	Odour_Code (-)		odour free	odour free
5	pH_GEN (pH units)		7.0	6.9
6	TDS (mg/L)		256	134
7	Temp (deg C)		22.0	24.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	0.0
2	ALK-TOT (mgCaCO3/L)		167	76
3	B (mg/L)		0.08	0.14
4	Ca (mg/L)		44	30
5	Cl (mg/L)		41.5	11.7
6	CO3 (mg/L)		0.0	0.0
7	F (mg/L)		0.29	0.15
8	Fe (mg/L)		0.8	0.9
9	HCO3 (mg/L)		203	93
10	K (mg/L)		12.8	2.4
11	Mg (mg/L)		11.2	4.6
12	Na (mg/L)		28.0	7.0
13	NO2+NO3 (mg N/L)		0.94	0.76
14	NO2-N (mgN/L)		0.01	0.00
15	NO3-N (mgN/L)		0.92	0.76
16	o-PO4-P (mg P/L)		0.041	0.000
17	SiO2 (mg/L)		32.9	24.1
18	SO4 (mg/L)		2.2	13.6
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		6.8	1.4
2	COD (mg/L)		22.0	20.0
3	DO (mg/L)		0.8	2.7
4	DO_SAT% (%)		9	32
	TRACE & TOXIC			
1	As (μg/L)		0.7	
2	Cd (μg/L)		0.0	
3	Cr (μg/L)		0.6	
4	Cu (μg/L)		0.8	
5	Ni (μg/L)		0.5	
6	Pb (μg/L)		1.1	
7	Zn (μg/L)		0.1	
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		111	75
2	HAR_Total (mgCaCO3/L)		158	94
3	Na% (%)		26	14
4	RSC (-)		0.2	0.0
5	SAR (-)		1.0	0.3
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : THIMMANAHALLI (CCRI0F7)

Division : Cauvery Division, Bangalore

Local River : Yagachi

Sub-Division : SWR SD MANGALORE

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	3.444	0.000	0.136
2	EC_GEN (µmho/cm)	3	437	222	364
3	pH_GEN (pH units)	3	7.3	6.9	7.1
4	TDS (mg/L)	3	272	134	221
5	Temp (deg C)	3	24.0	22.0	23.3
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	3	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	3	167	76	132
3	B (mg/L)	3	0.39	0.08	0.2
4	Ca (mg/L)	3	44	30	38
5	Cl (mg/L)	3	48.3	11.7	33.8
6	CO3 (mg/L)	3	0.0	0.0	0
7	F (mg/L)	3	0.29	0.02	0.15
8	Fe (mg/L)	3	0.9	0.1	0.6
9	HCO3 (mg/L)	3	203	93	161
10	K (mg/L)	3	12.8	2.4	7.4
11	Mg (mg/L)	3	14.6	4.6	10.1
12	Na (mg/L)	3	34.0	7.0	23
13	NO2+NO3 (mg N/L)	3	0.94	0.76	0.85
14	NO2-N (mgN/L)	3	0.01	0.00	0
15	NO3-N (mgN/L)	3	0.92	0.76	0.85
16	o-PO4-P (mg P/L)	3	0.041	0.000	0.017
17	SiO2 (mg/L)	3	32.9	19.8	25.6
18	SO4 (mg/L)	3	13.6	2.2	8.7
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	3	6.8	0.2	2.8
2	COD (mg/L)	2	22.0	20.0	21
3	DO (mg/L)	3	3.0	0.8	2.2
4	DO_SAT% (%)	3	36	9	26
	TRACE & TOXIC				
1	As (µg/L)	1	0.7	0.7	0.7
2	Cd (µg/L)	1	0.0	0.0	0
3	Cr (µg/L)	1	0.6	0.6	0.6
4	Cu (µg/L)	1	0.8	0.8	0.8
5	Ni (µg/L)	1	0.5	0.5	0.5
6	Pb (µg/L)	1	1.1	1.1	1.1
7	Zn (µg/L)	1	0.1	0.1	0.1
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	3	111	75	94
2	HAR_Total (mgCaCO3/L)	3	158	94	137
3	Na% (%)	3	31	14	23
4	RSC (-)	3	0.2	0.0	0.1
5	SAR (-)	3	1.2	0.3	0.8
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THIMMANAHALLI (CCRI0F7)

Division : Cauvery Division, Bangalore

Local River : Yagachi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	48.02	28.26	13.49	37.82	8.519
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)	277	208	204	220	236
4	pH_FLD (pH units)					
5	pH_GEN (pH units)	7.5	7.7	7.7	7.6	7.3
6	TDS (mg/L)					
7	Temp (deg C)	26.0	25.7	19.9	23.2	25.8
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	57	71	72	77	79
2	B (mg/L)	0.03	0.30	0.03	0.03	0.00
3	Ca (mg/L)	15	17	18	19	20
4	Cl (mg/L)	49.9	19.5	18.7	21.9	21.9
5	F (mg/L)	0.08	0.15	0.17	0.15	0.28
6	Fe (mg/L)	0.2	0.2	0.2	0.3	0.1
7	HCO3 (mg/L)	70	87	88	95	100
8	K (mg/L)	2.0	2.6	2.4	2.0	2.3
9	Mg (mg/L)	8.1	6.4	6.2	7.2	7.0
10	Na (mg/L)	31.8	13.7	14.4	15.2	17.3
11	NO2+NO3 (mg N/L)	1.00	0.63	0.70	0.64	0.91
12	NO2-N (mgN/L)	0.00	0.01	0.02	0.01	0.00
13	NO3-N (mgN/L)	1.00	0.62	0.68	0.64	0.90
14	o-PO4-P (mg P/L)	0.444	0.000	0.008	0.010	0.003
15	SiO2 (mg/L)	17.7	13.6	13.4	12.8	13.9
16	SO4 (mg/L)	3.2	3.1	4.0	4.3	5.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	37	43	44	46	50
2	HAR_Total (mgCaCO3/L)	71	70	70	76	79
3	Na% (%)	48	29	30	29	32
4	RSC (-)	0.0	0.1	0.1	0.1	0.1
5	SAR (-)	1.6	0.7	0.7	0.8	0.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THIMMANAHALLI (CCRI0F7)

Division : Cauvery Division, Bangalore

Local River : Yagachi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	3.328	35.68	5.914	5.668	1.277
2	EC_FLD (µmho/cm)		291			
3	EC_GEN (µmho/cm)	253	245	269	244	335
4	pH_FLD (pH units)		7.1			
5	pH_GEN (pH units)	7.6	7.4	7.4	7.4	7.0
6	TDS (mg/L)					192
7	Temp (deg C)	25.7	24.1	26.7	24.4	23.6
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	86	83	90	81	104
2	B (mg/L)		0.02	0.12	0.23	0.12
3	Ca (mg/L)	21	23	24	21	27
4	Cl (mg/L)	24.9	24.8	30.2	25.6	45.6
5	F (mg/L)	0.22	0.18	0.24	0.24	
6	Fe (mg/L)		0.7	0.2	0.2	0.1
7	HCO3 (mg/L)	104	101	110	98	127
8	K (mg/L)	1.9	2.6	2.9	2.0	3.4
9	Mg (mg/L)	7.0	6.8	9.5	7.4	12.1
10	Na (mg/L)	18.9	19.0	15.8	17.1	23.2
11	NO2+NO3 (mg N/L)	1.01	1.38	1.19	0.69	1.08
12	NO2-N (mgN/L)	0.01	0.03	0.01	0.01	0.01
13	NO3-N (mgN/L)	0.99	1.35	1.18	0.69	1.06
14	o-PO4-P (mg P/L)		0.062	0.027	0.103	0.010
15	SiO2 (mg/L)		12.8	9.9	16.1	25.0
16	SO4 (mg/L)	3.6	9.7	6.1	7.3	6.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)	3.3	1.0			
2	Cd (µg/L)	0.4	0.2			
3	Cr (µg/L)	2.8	0.7			
4	Cu (µg/L)	11.3	1.4			
5	Hg (µg/L)					
6	Ni (µg/L)	1.2	14.4			
7	Pb (µg/L)		4.0			
8	Zn (µg/L)		0.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	53	58	59	53	66
2	HAR_Total (mgCaCO3/L)	82	86	99	84	117
3	Na% (%)	33	32	25	30	30
4	RSC (-)	0.1	0.1	0.0	0.0	0.0
5	SAR (-)	0.9	0.9	0.7	0.8	1.0
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THIMMANAHALLI (CCRI0F7)

Division : Cauvery Division, Bangalore

Local River : Yagachi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	0.546	8.369	5.632	6.083	7.453
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)	437	247	255	223	229
4	pH_FLD (pH units)					
5	pH_GEN (pH units)	7.3	7.8	7.7	7.7	7.6
6	TDS (mg/L)	272				
7	Temp (deg C)	24.0	25.5	21.3	20.3	17.5
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	154	43	93	81	83
2	B (mg/L)	0.39	0.01	0.08	0.02	0.04
3	Ca (mg/L)	39	9	23	20	20
4	Cl (mg/L)	48.3	51.5	22.5	21.3	21.3
5	F (mg/L)	0.02	0.10	0.12	0.18	0.58
6	Fe (mg/L)	0.1	0.2	0.1	0.1	0.1
7	HCO3 (mg/L)	187	53	114	98	101
8	K (mg/L)	6.9	1.8	2.2	1.9	2.6
9	Mg (mg/L)	14.6	4.5	6.8	6.8	7.3
10	Na (mg/L)	34.0	37.7	17.9	16.4	14.8
11	NO2+NO3 (mg N/L)	0.85	0.49	0.52	0.51	0.66
12	NO2-N (mgN/L)	0.00	0.00	0.01	0.01	0.02
13	NO3-N (mgN/L)	0.85	0.49	0.51	0.49	0.63
14	o-PO4-P (mg P/L)	0.010	0.486	0.039	0.010	0.005
15	SiO2 (mg/L)	19.8	10.6	17.0	14.8	13.2
16	SO4 (mg/L)	10.3	2.3	3.8	3.7	5.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.2				
2	COD (mg/L)					
3	DO (mg/L)	3.0				
4	DO_SAT% (%)	36				
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	97	22	58	49	49
2	HAR_Total (mgCaCO3/L)	158	41	86	77	79
3	Na% (%)	31	65	30	31	28
4	RSC (-)	0.0	0.1	0.1	0.1	0.1
5	SAR (-)	1.2	2.5	0.8	0.8	0.7
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THIMMANAHALLI (CCRI0F7)

Division : Cauvery Division, Bangalore

Local River : Yagachi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	5.152	3.120	2.918	3.640	10.43
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)	243	298	272	259	276
4	pH_FLD (pH units)					
5	pH_GEN (pH units)	7.1	7.6	7.5	7.7	7.5
6	TDS (mg/L)					147
7	Temp (deg C)	23.0	22.1	23.8	24.4	24.8
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	88	102	99	90	96
2	B (mg/L)	0.00		0.02	0.10	0.25
3	Ca (mg/L)	21	27	25	24	24
4	Cl (mg/L)	23.9	31.9	27.6	28.3	31.1
5	F (mg/L)		0.44	0.29	0.19	0.23
6	Fe (mg/L)	0.0		0.1	0.1	0.1
7	HCO3 (mg/L)	104	124	120	109	118
8	K (mg/L)	2.0	2.3	2.2	5.9	3.0
9	Mg (mg/L)	7.3	8.3	8.5	8.7	8.5
10	Na (mg/L)	17.2	21.3	19.5	15.2	17.9
11	NO2+NO3 (mg N/L)	1.11	1.14	1.05	0.98	0.61
12	NO2-N (mgN/L)	0.00	0.01	0.00	0.01	0.01
13	NO3-N (mgN/L)	1.11	1.13	1.05	0.97	0.60
14	o-PO4-P (mg P/L)	0.005		0.036	0.010	0.129
15	SiO2 (mg/L)	12.3		13.5	12.3	12.7
16	SO4 (mg/L)	4.0	4.1	4.3	5.0	4.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)	0.2	4.1			1.0
2	Cd (µg/L)	0.5			0.1	0.0
3	Cr (µg/L)	2.2	0.3		4.0	0.0
4	Cu (µg/L)	32.8			3.3	0.5
5	Hg (µg/L)					
6	Ni (µg/L)	3.0	8.6		7.0	0.3
7	Pb (µg/L)	0.2			0.9	0.6
8	Zn (µg/L)				9.6	1.2
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	53	68	62	61	60
2	HAR_Total (mgCaCO3/L)	83	102	97	97	95
3	Na% (%)	31	31	30	24	28
4	RSC (-)	0.1	0.1	0.1	0.0	0.1
5	SAR (-)	0.8	0.9	0.9	0.7	0.8
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THIMMANAHALLI (CCRI0F7)

Division : Cauvery Division, Bangalore

Local River : Yagachi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	0.983		4.824	1.897	3.026
2	EC_FLD (µmho/cm)					
3	EC_GEN (µmho/cm)	303		216	228	249
4	pH_FLD (pH units)					
5	pH_GEN (pH units)	7.4		7.8	7.8	7.6
6	TDS (mg/L)	172				
7	Temp (deg C)	21.3		27.3	21.8	21.7
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	89		73	82	86
2	B (mg/L)	0.12		0.04	0.05	0.04
3	Ca (mg/L)	26		15	19	20
4	Cl (mg/L)	39.2		19.7	20.4	25.7
5	F (mg/L)			0.43	0.10	0.18
6	Fe (mg/L)	0.1		0.2	0.2	0.1
7	HCO3 (mg/L)	108		89	100	105
8	K (mg/L)	2.3		1.0	2.1	2.8
9	Mg (mg/L)	8.1		9.5	7.1	8.1
10	Na (mg/L)	26.2		14.4	18.0	19.0
11	NO2+NO3 (mg N/L)	0.79		0.28	0.51	0.54
12	NO2-N (mgN/L)	0.00		0.01	0.00	0.02
13	NO3-N (mgN/L)	0.78		0.27	0.51	0.52
14	o-PO4-P (mg P/L)	0.038		0.048	0.010	0.007
15	SiO2 (mg/L)	12.2		5.8	15.7	17.5
16	SO4 (mg/L)	11.6		1.9	3.3	2.8
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)	0.9		8.4		
2	Cd (µg/L)	0.0		1.0		
3	Cr (µg/L)	0.7				
4	Cu (µg/L)	0.6		3.9	3.2	
5	Hg (µg/L)					
6	Ni (µg/L)	0.0			11.1	
7	Pb (µg/L)	0.8		1.8		
8	Zn (µg/L)	1.2		33.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	64		37	48	51
2	HAR_Total (mgCaCO3/L)	98		77	78	84
3	Na% (%)	36		26	33	32
4	RSC (-)	0.0		0.0	0.1	0.0
5	SAR (-)	1.2		0.7	0.9	0.9
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THIMMANAHALLI (CCRI0F7)

Division : Cauvery Division, Bangalore

Local River : Yagachi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	4.111	1.154	0.289	1.094
2	EC_FLD (µmho/cm)				
3	EC_GEN (µmho/cm)	254	246	350	243
4	pH_FLD (pH units)				
5	pH_GEN (pH units)	7.4	7.3	7.6	7.1
6	TDS (mg/L)				
7	Temp (deg C)	20.0	27.0	24.0	26.2
	CHEMICAL				
1	ALK-TOT (mgCaCO3/L)	81	84	105	88
2	B (mg/L)	0.04		0.00	0.09
3	Ca (mg/L)	19	19	31	19
4	Cl (mg/L)	22.5	25.7	39.4	22.1
5	F (mg/L)	0.21	0.32		0.26
6	Fe (mg/L)	0.0		0.1	0.1
7	HCO3 (mg/L)	99	103	129	107
8	K (mg/L)	3.2	2.5	4.8	2.8
9	Mg (mg/L)	7.5	7.9	8.7	7.5
10	Na (mg/L)	16.5	17.8	25.2	18.6
11	NO2+NO3 (mg N/L)	0.72	1.27	1.32	1.34
12	NO2-N (mgN/L)	0.01	0.01	0.00	0.01
13	NO3-N (mgN/L)	0.71	1.26	1.32	1.33
14	o-PO4-P (mg P/L)	0.010		0.176	0.034
15	SiO2 (mg/L)	18.6		20.5	13.8
16	SO4 (mg/L)	4.9	4.9	9.8	6.4
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				
2	COD (mg/L)				
3	DO (mg/L)				
4	DO_SAT% (%)				
	TRACE & TOXIC				
1	As (µg/L)	1.5	2.1	7.8	2.5
2	Cd (µg/L)	0.0	0.2	0.2	0.7
3	Cr (µg/L)	1.7	2.5		0.5
4	Cu (µg/L)	4.3	8.9	1.8	0.3
5	Hg (µg/L)				
6	Ni (µg/L)		1.5	3.5	9.2
7	Pb (µg/L)	0.6	3.8	3.9	0.2
8	Zn (µg/L)		18.0	4.2	17.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	48	47	78	47
2	HAR_Total (mgCaCO3/L)	79	80	114	78
3	Na% (%)	30	32	31	34
4	RSC (-)	0.0	0.1	0.0	0.2
5	SAR (-)	0.8	0.9	1.0	0.9
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : THIMMANAHALLI (CCRI0F7)

Division : Cauvery Division, Bangalore

Local River : Yagachi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	1.067	0.568		0.129
2	EC_FLD (µmho/cm)				
3	EC_GEN (µmho/cm)	298	326		328
4	pH_FLD (pH units)				
5	pH_GEN (pH units)	7.5	7.3		7.0
6	TDS (mg/L)		155		195
7	Temp (deg C)	25.0	26.5		23.0
	CHEMICAL				
1	ALK-TOT (mgCaCO3/L)	100	108		121
2	B (mg/L)	0.36	0.23		0.11
3	Ca (mg/L)	28	30		37
4	Cl (mg/L)	36.8	36.4		26.6
5	F (mg/L)	0.23			0.22
6	Fe (mg/L)	0.2	0.1		0.9
7	HCO3 (mg/L)	121	131		148
8	K (mg/L)	4.6	3.7		7.6
9	Mg (mg/L)	7.5	8.3		7.9
10	Na (mg/L)	19.6	23.3		17.5
11	NO2+NO3 (mg N/L)	0.52	0.87		0.85
12	NO2-N (mgN/L)	0.01	0.00		0.01
13	NO3-N (mgN/L)	0.51	0.86		0.84
14	o-PO4-P (mg P/L)	0.007	0.016		0.021
15	SiO2 (mg/L)	8.6	18.9		28.5
16	SO4 (mg/L)	5.7	5.4		7.9
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)				4.1
2	COD (mg/L)				21.0
3	DO (mg/L)				1.8
4	DO_SAT% (%)				21
	TRACE & TOXIC				
1	As (µg/L)				0.7
2	Cd (µg/L)				0.0
3	Cr (µg/L)				0.6
4	Cu (µg/L)				0.8
5	Hg (µg/L)				
6	Ni (µg/L)				0.5
7	Pb (µg/L)				1.1
8	Zn (µg/L)				0.1
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	69	76		93
2	HAR_Total (mgCaCO3/L)	100	110		126
3	Na% (%)	29	31		20
4	RSC (-)	0.1	0.0		0.1
5	SAR (-)	0.9	1.0		0.6
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: SAKALESHPUR	Code	: CCR00U6
State	: Karnataka	District	Hassan
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: Hemavathi	Sub Tributary	:
Sub-Sub Tributary	:	Local River	: Hemavathi
Division	: Cauvery Division, Bangalore	Sub-Division	: SWR SD MANGALORE
Drainage Area	: 617 Sq. Km.	Bank	: Right
Latitude	: 12°56'37"	Longitude	: 75°47'37"
Zero of Gauge (m)	: 882.000 (m.s.l) 882.470 (m.s.l)	02/08/1999 01/06/2009	- 31/05/2009
	Opening Date	Closing Date	
Gauge	: 02/08/1999		
Discharge	: 05/04/2002		
Sediment	: 30/09/2013		
Water Quality	: 02/09/2002		

Water Quality Datasheet for the period : 2017-2018

Station Name : SAKALESHPUR (CCR00U6)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

Sub-Division : SWR SD MANGALORE

River Water Analysis

S.No	Parameters	01/06/2017	03/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	1.361	50.42	41.38
2	Colour_Cod (-)	Clear	Light Brown	Light Brown
3	EC_GEN (µmho/cm)	95	71	68
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.3	7.1	7.1
6	TDS (mg/L)	72	48	38
7	Temp (deg C)	25.0	25.0	25.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	36	24	20
3	B (mg/L)	0.05	0.33	0.07
4	Ca (mg/L)	9	10	5
5	Cl (mg/L)	5.3	5.3	7.1
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.04	0.08	0.04
8	Fe (mg/L)	0.2	0.4	0.5
9	HCO3 (mg/L)	44	29	24
10	K (mg/L)	1.9	1.4	1.1
11	Mg (mg/L)	2.4	0.7	3.0
12	Na (mg/L)	6.0	3.6	4.0
13	NO2+NO3 (mg N/L)	0.73	7.86	0.94
14	NO2-N (mgN/L)	0.01	0.01	0.01
15	NO3-N (mgN/L)	0.71	7.85	0.92
16	o-PO4-P (mg P/L)	0.000	0.010	0.103
17	SiO2 (mg/L)	17.8	12.4	13.5
18	SO4 (mg/L)	6.0	4.4	3.6
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.2	1.5	1.3
2	COD (mg/L)			
3	DO (mg/L)	5.7	6.6	6.9
4	DO_SAT% (%)	69	80	84
	TRACE & TOXIC			
1	As (µg/L)			1.0
2	Cd (µg/L)			0.0
3	Cr (µg/L)			19.0
4	Cu (µg/L)			4.0
5	Ni (µg/L)			
6	Pb (µg/L)			2.0
7	Zn (µg/L)			8.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	23	25	13
2	HAR_Total (mgCaCO3/L)	33	28	25
3	Na% (%)	27	21	25
4	RSC (-)	0.1	0.0	0.0
5	SAR (-)	0.5	0.3	0.3
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : SAKALESHPUR (CCR00U6)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

Sub-Division : SWR SD MANGALORE

River Water Analysis

S.No	Parameters	04/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	47.33	43.56	18.09
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (μmho/cm)	70	70	66
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.1	7.1	7.4
6	TDS (mg/L)	48	54	46
7	Temp (deg C)	25.0	25.0	24.5
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	28	28	19
3	B (mg/L)	0.00	0.38	0.03
4	Ca (mg/L)	8	9	4
5	Cl (mg/L)	5.3	4.6	7.5
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.04	0.04	0.06
8	Fe (mg/L)	0.3	0.3	0.3
9	HCO3 (mg/L)	34	34	24
10	K (mg/L)	1.1	1.1	0.9
11	Mg (mg/L)	1.9	1.8	3.5
12	Na (mg/L)	3.6	3.0	4.0
13	NO2+NO3 (mg N/L)	0.46	0.52	0.60
14	NO2-N (mgN/L)	0.01	0.00	0.01
15	NO3-N (mgN/L)	0.45	0.52	0.59
16	o-PO4-P (mg P/L)	0.031	0.000	0.000
17	SiO2 (mg/L)	2.1	11.5	4.3
18	SO4 (mg/L)	1.8	1.7	1.2
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.4	1.4	0.2
2	COD (mg/L)			
3	DO (mg/L)	6.6	6.4	6.9
4	DO_SAT% (%)	80	77	82
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	19	23	11
2	HAR_Total (mgCaCO3/L)	27	30	26
3	Na% (%)	22	17	25
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.3	0.2	0.3
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : SAKALESHPUR (CCR00U6)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

Sub-Division : SWR SD MANGALORE

River Water Analysis

S.No	Parameters	04/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	8.316	4.943	2.266
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (µmho/cm)	74	77	70
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.3	7.3	7.2
6	TDS (mg/L)	54	42	46
7	Temp (deg C)	23.0	22.0	22.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	23	27	23
3	B (mg/L)	0.00	0.00	0.02
4	Ca (mg/L)	6	4	5
5	Cl (mg/L)	7.5	7.5	7.5
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.02	0.04	0.02
8	Fe (mg/L)	0.4	0.3	0.1
9	HCO3 (mg/L)	29	33	28
10	K (mg/L)	1.1	1.1	1.0
11	Mg (mg/L)	3.6	4.5	3.8
12	Na (mg/L)	4.0	4.0	4.0
13	NO2+NO3 (mg N/L)	0.90	0.39	0.73
14	NO2-N (mgN/L)	0.01	0.01	0.01
15	NO3-N (mgN/L)	0.88	0.38	0.71
16	o-PO4-P (mg P/L)	0.000	0.000	0.000
17	SiO2 (mg/L)	8.6	10.6	13.6
18	SO4 (mg/L)	0.6	0.9	0.3
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.3	1.5	1.2
2	COD (mg/L)			
3	DO (mg/L)	7.0	7.2	7.4
4	DO_SAT% (%)	82	82	85
	TRACE & TOXIC			
1	As (µg/L)	3.5		
2	Cd (µg/L)	0.1		
3	Cr (µg/L)	6.2		
4	Cu (µg/L)	2.1		
5	Ni (µg/L)	8.0		
6	Pb (µg/L)	1.3		
7	Zn (µg/L)	4.1		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	15	11	12
2	HAR_Total (mgCaCO3/L)	30	30	27
3	Na% (%)	22	22	24
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.3	0.3	0.3
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : SAKALESHPUR (CCR00U6)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

Sub-Division : SWR SD MANGALORE

River Water Analysis

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	0.420	0.797	0.834
2	Colour_Cod (-)	Clear	Light Brown	Clear
3	EC_GEN (μmho/cm)	94	95	85
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	6.7	7.0	7.2
6	TDS (mg/L)	54	72	66
7	Temp (deg C)	20.0	25.0	26.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	31	63	34
3	B (mg/L)	0.00	0.03	0.06
4	Ca (mg/L)	10	13	10
5	Cl (mg/L)	9.6	19.9	6.0
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.04	0.00	0.06
8	Fe (mg/L)	0.0	0.0	0.3
9	HCO3 (mg/L)	38	77	41
10	K (mg/L)	1.3	3.0	1.6
11	Mg (mg/L)	2.8	8.4	1.8
12	Na (mg/L)	5.0	12.7	4.0
13	NO2+NO3 (mg N/L)	0.64	0.52	0.55
14	NO2-N (mgN/L)	0.00	0.01	0.01
15	NO3-N (mgN/L)	0.64	0.50	0.53
16	o-PO4-P (mg P/L)	0.062	0.134	0.000
17	SiO2 (mg/L)	12.0	15.0	16.0
18	SO4 (mg/L)	0.4	4.2	1.0
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.2	4.0	1.4
2	COD (mg/L)		11.0	13.0
3	DO (mg/L)	5.4	5.6	3.0
4	DO_SAT% (%)	59	68	37
	TRACE & TOXIC			
1	As (μg/L)		1.4	
2	Cd (μg/L)		0.0	
3	Cr (μg/L)		0.3	
4	Cu (μg/L)		0.4	
5	Ni (μg/L)		0.6	
6	Pb (μg/L)		1.0	
7	Zn (μg/L)		3.2	
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	24	32	24
2	HAR_Total (mgCaCO3/L)	36	66	32
3	Na% (%)	23	28	21
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.4	0.7	0.3
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : SAKALESHPUR (CCR00U6)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

Sub-Division : SWR SD MANGALORE

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	293.9	0.000	22.80
2	EC_GEN (µmho/cm)	12	95	66	78
3	pH_GEN (pH units)	12	7.4	6.7	7.2
4	TDS (mg/L)	12	72	38	53
5	Temp (deg C)	12	26.0	20.0	24
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	12	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	12	63	19	30
3	B (mg/L)	12	0.38	0.00	0.08
4	Ca (mg/L)	12	13	4	8
5	Cl (mg/L)	12	19.9	4.6	7.8
6	CO3 (mg/L)	12	0.0	0.0	0
7	F (mg/L)	12	0.08	0.00	0.04
8	Fe (mg/L)	12	0.5	0.0	0.3
9	HCO3 (mg/L)	12	77	24	36
10	K (mg/L)	12	3.0	0.9	1.4
11	Mg (mg/L)	12	8.4	0.7	3.2
12	Na (mg/L)	12	12.7	3.0	4.8
13	NO2+NO3 (mg N/L)	12	7.86	0.39	1.24
14	NO2-N (mgN/L)	12	0.01	0.00	0.01
15	NO3-N (mgN/L)	12	7.85	0.38	1.22
16	o-PO4-P (mg P/L)	12	0.134	0.000	0.028
17	SiO2 (mg/L)	12	17.8	2.1	11.4
18	SO4 (mg/L)	12	6.0	0.3	2.2
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	12	4.0	0.2	1.3
2	COD (mg/L)	2	13.0	11.0	12
3	DO (mg/L)	12	7.4	3.0	6.2
4	DO_SAT% (%)	12	85	37	74
	TRACE & TOXIC				
1	As (µg/L)	3	3.5	1.0	2
2	Cd (µg/L)	3	0.1	0.0	0
3	Cr (µg/L)	3	19.0	0.3	8.5
4	Cu (µg/L)	3	4.0	0.4	2.2
5	Ni (µg/L)	2	8.0	0.6	4.3
6	Pb (µg/L)	3	2.0	1.0	1.4
7	Zn (µg/L)	3	8.0	3.2	5.1
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	12	32	11	19
2	HAR_Total (mgCaCO3/L)	12	66	25	32
3	Na% (%)	12	28	17	23
4	RSC (-)	12	0.1	0.0	0
5	SAR (-)	12	0.7	0.2	0.4
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAKALESHPUR (CCR00U6)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)	342.3	57.26	50.19	80.76	75.47
2	EC_GEN (µmho/cm)	61	81	68	67	71
3	pH_GEN (pH units)	6.8	7.5	7.3	7.1	6.6
4	TDS (mg/L)					
5	Temp (deg C)	22.5	23.3	23.0	23.8	23.5
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	14	27	22	22	23
2	B (mg/L)	0.00	0.29	0.02	0.01	1.92
3	Ca (mg/L)	4	7	5	5	5
4	Cl (mg/L)	9.9	6.6	6.2	6.5	7.1
5	F (mg/L)	0.21	0.03	0.06	0.02	0.08
6	Fe (mg/L)	0.1	0.2	0.3	0.2	0.1
7	HCO3 (mg/L)	17	33	27	26	27
8	K (mg/L)	0.5	1.3	1.2	1.0	1.3
9	Mg (mg/L)	1.1	3.3	2.9	2.9	2.9
10	Na (mg/L)	7.0	4.1	4.0	4.1	4.7
11	NO2+NO3 (mg N/L)	0.02	0.53	0.58	0.64	0.82
12	NO2-N (mgN/L)	0.00	0.01	0.01	0.00	0.01
13	NO3-N (mgN/L)	0.02	0.52	0.57	0.64	0.81
14	o-PO4-P (mg P/L)	0.050	0.000	0.006	0.004	0.003
15	SiO2 (mg/L)	10.6	15.5	12.6	13.2	15.2
16	SO4 (mg/L)	2.3	2.9	3.4	3.0	3.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	11	17	14	13	12
2	HAR_Total (mgCaCO3/L)	15	31	26	25	24
3	Na% (%)	50	22	24	25	29
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.8	0.3	0.3	0.4	0.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAKALESHPUR (CCR00U6)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	69.33	175.6	129.9	49.84	42.00
2	EC_GEN (µmho/cm)	61	69	87	73	79
3	pH_GEN (pH units)	6.9	6.8	6.9	7.2	7.1
4	TDS (mg/L)					43
5	Temp (deg C)	24.0	23.9	25.2	24.7	24.4
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	17	16	26	21	22
2	B (mg/L)		0.01	0.10	0.48	0.11
3	Ca (mg/L)	5	6	8	6	7
4	Cl (mg/L)	6.6	9.0	10.1	8.5	10.5
5	F (mg/L)	0.05	0.07	0.31	0.06	
6	Fe (mg/L)		0.3	0.3	0.2	0.3
7	HCO3 (mg/L)	21	20	32	26	26
8	K (mg/L)	1.2	1.3	1.7	1.3	1.7
9	Mg (mg/L)	2.3	2.6	3.1	2.7	2.0
10	Na (mg/L)	3.9	4.2	5.0	4.2	6.9
11	NO2+NO3 (mg N/L)	0.69	1.14	0.96	0.68	0.79
12	NO2-N (mgN/L)	0.01	0.01	0.01	0.01	0.07
13	NO3-N (mgN/L)	0.69	1.13	0.95	0.67	0.72
14	o-PO4-P (mg P/L)		0.035	0.023	0.068	0.275
15	SiO2 (mg/L)		12.6	9.3	13.3	19.3
16	SO4 (mg/L)	2.8	3.6	3.1	3.0	2.9
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.5	0.8	1.9	2.1	0.6
2	COD (mg/L)					
3	DO (mg/L)	6.6	5.8	5.3	6.3	7.0
4	DO_SAT% (%)	79	69	65	76	83
	TRACE & TOXIC					
1	As (µg/L)	1.0	0.6			
2	Cd (µg/L)	0.3	0.1			
3	Cr (µg/L)	3.4	0.4			
4	Cu (µg/L)	22.0	0.9			
5	Hg (µg/L)					
6	Ni (µg/L)	2.2	9.3			
7	Pb (µg/L)		3.2			
8	Zn (µg/L)		0.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	12	14	19	15	17
2	HAR_Total (mgCaCO3/L)	21	25	32	26	25
3	Na% (%)	27	26	25	25	36
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.4	0.4	0.4	0.4	0.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAKALESHPUR (CCR00U6)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	36.81	60.96	12.47	17.35	21.44
2	EC_GEN (µmho/cm)	75	93	88	84	86
3	pH_GEN (pH units)	7.1	7.5	7.5	7.3	7.2
4	TDS (mg/L)	52				
5	Temp (deg C)	25.0	23.8	22.1	22.5	22.5
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	27	22	29	27	29
2	B (mg/L)	0.17	0.01	0.08	0.03	0.02
3	Ca (mg/L)	8	3	7	7	6
4	Cl (mg/L)	5.5	12.8	10.1	9.2	10.9
5	F (mg/L)	0.05	0.07	0.06	0.04	0.08
6	Fe (mg/L)	0.4	0.2	0.1	0.2	0.1
7	HCO3 (mg/L)	33	27	35	33	28
8	K (mg/L)	1.3	1.9	1.1	1.2	1.2
9	Mg (mg/L)	2.0	4.2	2.9	3.2	3.9
10	Na (mg/L)	4.0	9.6	5.6	4.9	4.7
11	NO2+NO3 (mg N/L)	2.10	0.64	0.53	0.66	0.98
12	NO2-N (mgN/L)	0.01	0.00	0.01	0.02	0.01
13	NO3-N (mgN/L)	2.09	0.64	0.52	0.64	0.97
14	o-PO4-P (mg P/L)	0.029	0.072	0.034	0.010	0.003
15	SiO2 (mg/L)	11.4	7.3	19.1	16.6	15.9
16	SO4 (mg/L)	3.5	1.4	0.8	2.1	2.8
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	1.2				
2	COD (mg/L)					
3	DO (mg/L)	6.4				
4	DO_SAT% (%)	78				
	TRACE & TOXIC					
1	As (µg/L)	1.0				
2	Cd (µg/L)	0.0				
3	Cr (µg/L)	19.0				
4	Cu (µg/L)	4.0				
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)	2.0				
8	Zn (µg/L)	8.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	20	7	18	17	14
2	HAR_Total (mgCaCO3/L)	29	25	30	30	30
3	Na% (%)	22	38	28	25	25
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.3	0.9	0.4	0.4	0.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAKALESHPUR (CCR00U6)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	14.23	14.02	12.49	11.80	35.05
2	EC_GEN (μmho/cm)	94	79	95	99	96
3	pH_GEN (pH units)	6.7	7.1	7.0	7.3	7.3
4	TDS (mg/L)					53
5	Temp (deg C)	21.5	23.9	24.8	23.0	23.8
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	27	23	26	28	25
2	B (mg/L)	0.00		0.01	0.22	0.20
3	Ca (mg/L)	7	7	8	9	6
4	Cl (mg/L)	11.7	8.5	13.8	12.7	13.6
5	F (mg/L)		0.23	0.19	0.06	0.26
6	Fe (mg/L)	0.0		0.1	0.1	0.2
7	HCO3 (mg/L)	34	28	31	35	31
8	K (mg/L)	1.3	1.3	1.4	3.6	1.5
9	Mg (mg/L)	3.9	2.4	3.2	3.2	3.9
10	Na (mg/L)	5.8	5.2	6.3	5.5	7.2
11	NO2+NO3 (mg N/L)	0.94	0.65	1.08	0.92	0.78
12	NO2-N (mgN/L)	0.00	0.01	0.00	0.01	0.01
13	NO3-N (mgN/L)	0.94	0.64	1.08	0.91	0.77
14	o-PO4-P (mg P/L)	0.005		0.021	0.005	0.194
15	SiO2 (mg/L)	13.8		12.5	12.1	14.3
16	SO4 (mg/L)	2.0	2.1	1.5	2.2	2.3
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		0.5	1.0	2.0	1.7
2	COD (mg/L)					
3	DO (mg/L)	6.9	6.3	6.7	6.1	6.5
4	DO_SAT% (%)	75	74	80	71	77
	TRACE & TOXIC					
1	As (μg/L)		5.3			
2	Cd (μg/L)	0.1	0.0		0.0	
3	Cr (μg/L)	1.7	0.3		10.2	
4	Cu (μg/L)	20.4	0.2		1.8	
5	Hg (μg/L)					
6	Ni (μg/L)	3.9	5.7		11.6	
7	Pb (μg/L)	0.2			1.3	
8	Zn (μg/L)				8.4	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	17	17	19	23	16
2	HAR_Total (mgCaCO3/L)	33	27	32	36	32
3	Na% (%)	27	29	29	23	30
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.4	0.5	0.5	0.4	0.6
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAKALESHPUR (CCR00U6)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	3.921	8.404	3.582	2.069	2.627
2	EC_GEN (µmho/cm)	71	72	113	95	98
3	pH_GEN (pH units)	7.3	7.3	7.3	7.4	7.4
4	TDS (mg/L)	44	47			
5	Temp (deg C)	22.5	22.9	24.3	23.0	25.3
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	15	23	26	36	38
2	B (mg/L)	0.15	0.01	0.01	0.05	0.02
3	Ca (mg/L)	5	5	8	6	6
4	Cl (mg/L)	8.7	7.5	14.4	7.6	7.7
5	F (mg/L)		0.03	0.11	0.04	0.07
6	Fe (mg/L)	0.1	0.3	0.1	0.2	0.1
7	HCO3 (mg/L)	18	28	32	44	46
8	K (mg/L)	1.0	1.0	0.9	1.4	1.6
9	Mg (mg/L)	3.0	3.9	3.5	4.2	4.2
10	Na (mg/L)	5.1	4.0	10.3	5.8	6.4
11	NO2+NO3 (mg N/L)	0.77	0.65	0.07	0.54	0.49
12	NO2-N (mgN/L)	0.01	0.01	0.00	0.00	0.01
13	NO3-N (mgN/L)	0.76	0.64	0.07	0.54	0.48
14	o-PO4-P (mg P/L)	0.008	0.000	0.052	0.010	0.007
15	SiO2 (mg/L)	15.3	9.3	10.4	14.7	18.9
16	SO4 (mg/L)	7.5	0.7	6.9	2.7	1.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.8	1.1			
2	COD (mg/L)					
3	DO (mg/L)	7.3	7.1			
4	DO_SAT% (%)	83	83			
	TRACE & TOXIC					
1	As (µg/L)	0.0	3.5	10.0	7.4	
2	Cd (µg/L)	0.0	0.1	1.1		
3	Cr (µg/L)	50.6	6.2		2.4	
4	Cu (µg/L)	0.1	2.1	3.4	6.3	
5	Hg (µg/L)					
6	Ni (µg/L)	1.4	8.0		13.8	
7	Pb (µg/L)	0.1	1.3	1.5		
8	Zn (µg/L)	0.2	4.1	29.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	13	12	19	16	16
2	HAR_Total (mgCaCO3/L)	25	28	34	34	34
3	Na% (%)	30	23	39	27	28
4	RSC (-)	0.0	0.0	0.0	0.1	0.1
5	SAR (-)	0.5	0.3	0.8	0.4	0.5
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAKALESHPUR (CCR00U6)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	3.240	2.407	1.284	2.139
2	EC_GEN (µmho/cm)	113	101	87	100
3	pH_GEN (pH units)	6.8	6.9	7.1	7.2
4	TDS (mg/L)				
5	Temp (deg C)	25.0	23.0	25.0	26.3
	CHEMICAL				
1	ALK-TOT (mgCaCO3/L)	38	32	22	31
2	B (mg/L)	0.03		0.00	0.08
3	Ca (mg/L)	7	7	7	8
4	Cl (mg/L)	12.0	11.1	10.9	10.9
5	F (mg/L)	0.05	0.06		0.37
6	Fe (mg/L)	0.1		0.1	0.3
7	HCO3 (mg/L)	45	40	27	38
8	K (mg/L)	1.6	1.6	1.5	2.3
9	Mg (mg/L)	5.2	4.2	2.9	3.6
10	Na (mg/L)	6.5	5.9	5.6	6.2
11	NO2+NO3 (mg N/L)	0.68	0.76	1.04	0.95
12	NO2-N (mgN/L)	0.00	0.01	0.00	0.01
13	NO3-N (mgN/L)	0.68	0.75	1.03	0.94
14	o-PO4-P (mg P/L)	0.005		0.017	0.031
15	SiO2 (mg/L)	21.0		18.5	19.9
16	SO4 (mg/L)	3.1	1.7	3.0	2.7
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)		1.5	0.7	1.7
2	COD (mg/L)				
3	DO (mg/L)		5.5	5.4	6.0
4	DO_SAT% (%)		63	65	75
	TRACE & TOXIC				
1	As (µg/L)	1.5	0.8	6.7	0.9
2	Cd (µg/L)	0.0	0.1	0.0	0.0
3	Cr (µg/L)	1.3	3.5	0.5	0.4
4	Cu (µg/L)	4.3	8.6	3.6	2.4
5	Hg (µg/L)				
6	Ni (µg/L)		7.2	0.8	11.6
7	Pb (µg/L)	0.2	3.8	2.0	0.4
8	Zn (µg/L)		34.0	11.1	24.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	19	17	17	20
2	HAR_Total (mgCaCO3/L)	40	35	29	35
3	Na% (%)	25	26	28	26
4	RSC (-)	0.0	0.0	0.0	0.0
5	SAR (-)	0.4	0.4	0.5	0.5
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : SAKALESHPUR (CCR00U6)

Division : Cauvery Division, Bangalore

Local River : Hemavathi

River Water

Sub-Division : SWR SD MANGALORE

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	2.404	0.521	0.520	0.712
2	EC_GEN (µmho/cm)	105	95	96	91
3	pH_GEN (pH units)	7.2	7.1	7.2	7.0
4	TDS (mg/L)		44	67	64
5	Temp (deg C)	25.8	26.3	22.3	23.7
	CHEMICAL				
1	ALK-TOT (mgCaCO3/L)	30	28	33	43
2	B (mg/L)	0.29	0.17	0.07	0.03
3	Ca (mg/L)	7	7	9	11
4	Cl (mg/L)	14.1	10.6	5.9	11.8
5	F (mg/L)	0.38		0.09	0.03
6	Fe (mg/L)	0.1	0.1	0.1	0.1
7	HCO3 (mg/L)	37	35	41	52
8	K (mg/L)	2.5	1.3	1.6	2.0
9	Mg (mg/L)	4.9	3.9	3.4	4.3
10	Na (mg/L)	6.1	5.7	5.8	7.2
11	NO2+NO3 (mg N/L)	0.50	0.72	0.43	0.57
12	NO2-N (mgN/L)	0.01	0.00	0.01	0.01
13	NO3-N (mgN/L)	0.49	0.72	0.42	0.56
14	o-PO4-P (mg P/L)	0.017	0.014	0.021	0.065
15	SiO2 (mg/L)	10.5	17.0	14.2	14.3
16	SO4 (mg/L)	2.3	2.7	6.3	1.9
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	1.6	0.8	1.5	1.9
2	COD (mg/L)				12.0
3	DO (mg/L)	5.0	5.2	7.2	4.7
4	DO_SAT% (%)	61	66	82	55
	TRACE & TOXIC				
1	As (µg/L)		6.0		1.4
2	Cd (µg/L)				0.0
3	Cr (µg/L)		0.3		0.3
4	Cu (µg/L)		4.3		0.4
5	Hg (µg/L)				
6	Ni (µg/L)		0.7		0.6
7	Pb (µg/L)				1.0
8	Zn (µg/L)		4.9		3.2
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	17	19	21	27
2	HAR_Total (mgCaCO3/L)	566	35	35	45
3	Na% (%)	25	25	25	24
4	RSC (-)	0.0	0.0	0.0	0.0
5	SAR (-)	0.4	0.4	0.4	0.5
	PESTICIDES				

HISTORY SHEET

		Water Year	: 2017-2018
Site	: CHUNCHUNKATTE	Code	: CC000V7
State	: Karnataka	District	Mysore
Basin	: Cauvery	Independent River	: Cauvery
Tributary	: -	Sub Tributary	:
Sub-Sub Tributary	:	Local River	: Cauvery
Division	: Cauvery Division, Bangalore	Sub-Division	: Upper Cauvery SD, Bangalore
Drainage Area	: 2995 Sq. Km.	Bank	:
Latitude	: 12°30'24"	Longitude	: 76°18'03"
Zero of Gauge (m)	: 748.000 (m.s.l)	21/07/1998	
	Opening Date	Closing Date	
Gauge	: 24/07/1998		
Discharge	: 19/07/2008		
Sediment	:		
Water Quality	: 03/10/2008		

Water Quality Datasheet for the period : 2017-2018

Station Name : Chunchunkatte (CC000V7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	01/06/2017	03/07/2017	01/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	155.8	61.67
2	Colour_Cod (-)		Light Brown	Light Brown
3	EC_GEN (µmho/cm)		50	70
4	Odour_Code (-)		odour free	odour free
5	pH_GEN (pH units)		7.1	7.4
6	TDS (mg/L)		26	50
7	Temp (deg C)		24.5	25.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	0.0
2	ALK-TOT (mgCaCO3/L)		16	20
3	B (mg/L)		0.21	0.16
4	Ca (mg/L)		8	5
5	Cl (mg/L)		3.6	5.3
6	CO3 (mg/L)		0.0	0.0
7	F (mg/L)		0.06	0.04
8	Fe (mg/L)		0.4	0.1
9	HCO3 (mg/L)		19	24
10	K (mg/L)		0.8	0.9
11	Mg (mg/L)		0.7	3.8
12	Na (mg/L)		2.2	3.0
13	NO2+NO3 (mg N/L)		0.49	0.57
14	NO2-N (mgN/L)		0.01	0.00
15	NO3-N (mgN/L)		0.48	0.57
16	o-PO4-P (mg P/L)		0.021	0.103
17	SiO2 (mg/L)		8.6	10.3
18	SO4 (mg/L)		4.4	5.7
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		0.5	1.7
2	DO (mg/L)		5.5	6.7
3	DO_SAT% (%)		65	81
	TRACE & TOXIC			
1	As (µg/L)			2.0
2	Cd (µg/L)			1.0
3	Cr (µg/L)			14.0
4	Cu (µg/L)			3.0
5	Ni (µg/L)			
6	Pb (µg/L)			2.0
7	Zn (µg/L)			7.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		19	13
2	HAR_Total (mgCaCO3/L)		22	28
3	Na% (%)		17	18
4	RSC (-)		0.0	0.0
5	SAR (-)		0.2	0.2
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Chunchunkatte (CC000V7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	04/09/2017	03/10/2017	01/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	113.6	118.3	10.54
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (μmho/cm)	79	107	125
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.6	7.8	7.8
6	TDS (mg/L)	62	60	64
7	Temp (deg C)	23.5	25.5	25.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	32	43	50
3	B (mg/L)	0.02	0.53	0.01
4	Ca (mg/L)	5	9	10
5	Cl (mg/L)	5.3	7.5	7.5
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.08	0.04	0.13
8	Fe (mg/L)	0.3	0.0	0.2
9	HCO3 (mg/L)	39	53	61
10	K (mg/L)	0.8	0.9	0.9
11	Mg (mg/L)	5.3	5.5	7.2
12	Na (mg/L)	3.2	4.0	5.0
13	NO2+NO3 (mg N/L)	0.64	0.42	4.06
14	NO2-N (mgN/L)	0.01	0.00	0.00
15	NO3-N (mgN/L)	0.63	0.42	4.06
16	o-PO4-P (mg P/L)	0.000	0.000	0.000
17	SiO2 (mg/L)	1.3	9.2	8.5
18	SO4 (mg/L)	1.2	3.6	0.9
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.8	0.8	0.4
2	DO (mg/L)	7.0	7.4	7.1
3	DO_SAT% (%)	82	90	86
	TRACE & TOXIC			
1	As (μg/L)			
2	Cd (μg/L)			
3	Cr (μg/L)			
4	Cu (μg/L)			
5	Ni (μg/L)			
6	Pb (μg/L)			
7	Zn (μg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	13	23	26
2	HAR_Total (mgCaCO3/L)	35	45	56
3	Na% (%)	16	16	16
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.2	0.3	0.3
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Chunchunkatte (CC000V7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	04/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	29.71	No Flow	No Flow
2	Colour_Cod (-)	Clear		
3	EC_GEN (µmho/cm)	201		
4	Odour_Code (-)	odour free		
5	pH_GEN (pH units)	7.9		
6	TDS (mg/L)	122		
7	Temp (deg C)	25.0		
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0		
2	ALK-TOT (mgCaCO3/L)	82		
3	B (mg/L)	0.00		
4	Ca (mg/L)	23		
5	Cl (mg/L)	11.0		
6	CO3 (mg/L)	0.0		
7	F (mg/L)	0.19		
8	Fe (mg/L)	0.1		
9	HCO3 (mg/L)	100		
10	K (mg/L)	1.2		
11	Mg (mg/L)	9.1		
12	Na (mg/L)	7.0		
13	NO2+NO3 (mg N/L)	0.74		
14	NO2-N (mgN/L)	0.00		
15	NO3-N (mgN/L)	0.74		
16	o-PO4-P (mg P/L)	0.000		
17	SiO2 (mg/L)	10.4		
18	SO4 (mg/L)	5.2		
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	1.2		
2	DO (mg/L)	7.2		
3	DO_SAT% (%)	87		
	TRACE & TOXIC			
1	As (µg/L)	4.2		
2	Cd (µg/L)	0.0		
3	Cr (µg/L)	5.3		
4	Cu (µg/L)	1.2		
5	Ni (µg/L)	2.7		
6	Pb (µg/L)	1.1		
7	Zn (µg/L)	3.7		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	57		
2	HAR_Total (mgCaCO3/L)	94		
3	Na% (%)	14		
4	RSC (-)	0.0		
5	SAR (-)	0.3		
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Chunchunkatte (CC000V7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water Analysis

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	01/03/2018	02/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	No Flow	No Flow	No Flow
2	Colour_Cod (-)			
3	EC_GEN (µmho/cm)			
4	Odour_Code (-)			
5	pH_GEN (pH units)			
6	TDS (mg/L)			
7	Temp (deg C)			
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)			
2	ALK-TOT (mgCaCO3/L)			
3	B (mg/L)			
4	Ca (mg/L)			
5	Cl (mg/L)			
6	CO3 (mg/L)			
7	F (mg/L)			
8	Fe (mg/L)			
9	HCO3 (mg/L)			
10	K (mg/L)			
11	Mg (mg/L)			
12	Na (mg/L)			
13	NO2+NO3 (mg N/L)			
14	NO2-N (mgN/L)			
15	NO3-N (mgN/L)			
16	o-PO4-P (mg P/L)			
17	SiO2 (mg/L)			
18	SO4 (mg/L)			
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)			
2	DO (mg/L)			
3	DO_SAT% (%)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)			
2	HAR_Total (mgCaCO3/L)			
3	Na% (%)			
4	RSC (-)			
5	SAR (-)			
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : Chunchunkatte (CC000V7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

Sub-Division : Upper Cauvery SD, Bangalore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	368.6	0.000	42.15
2	EC_GEN (µmho/cm)	6	201	50	105
3	pH_GEN (pH units)	6	7.9	7.1	7.6
4	TDS (mg/L)	6	122	26	64
5	Temp (deg C)	6	25.5	23.5	24.8
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	6	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	6	82	16	41
3	B (mg/L)	6	0.53	0.00	0.15
4	Ca (mg/L)	6	23	5	10
5	Cl (mg/L)	6	11.0	3.6	6.7
6	CO3 (mg/L)	6	0.0	0.0	0
7	F (mg/L)	6	0.19	0.04	0.09
8	Fe (mg/L)	6	0.4	0.0	0.2
9	HCO3 (mg/L)	6	100	19	49
10	K (mg/L)	6	1.2	0.8	0.9
11	Mg (mg/L)	6	9.1	0.7	5.3
12	Na (mg/L)	6	7.0	2.2	4.1
13	NO2+NO3 (mg N/L)	6	4.06	0.42	1.16
14	NO2-N (mgN/L)	6	0.01	0.00	0
15	NO3-N (mgN/L)	6	4.06	0.42	1.15
16	o-PO4-P (mg P/L)	6	0.103	0.000	0.021
17	SiO2 (mg/L)	6	10.4	1.3	8
18	SO4 (mg/L)	6	5.7	0.9	3.5
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	6	1.7	0.4	0.9
2	DO (mg/L)	6	7.4	5.5	6.8
3	DO_SAT% (%)	6	90	65	82
	TRACE & TOXIC				
1	As (µg/L)	2	4.2	2.0	3.1
2	Cd (µg/L)	2	1.0	0.0	0.5
3	Cr (µg/L)	2	14.0	5.3	9.6
4	Cu (µg/L)	2	3.0	1.2	2.1
5	Ni (µg/L)	1	2.7	2.7	2.7
6	Pb (µg/L)	2	2.0	1.1	1.5
7	Zn (µg/L)	2	7.0	3.7	5.4
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	6	57	13	25
2	HAR_Total (mgCaCO3/L)	6	94	22	47
3	Na% (%)	6	18	14	16
4	RSC (-)	6	0.0	0.0	0
5	SAR (-)	6	0.3	0.2	0.3
	PESTICIDES				

Water Quality Seasonal Average for the period: 2008-2018

Station Name : Chunchunkatte (CC000V7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2008	2009	2010	2011	2012
	PHYSICAL					
1	Q (cumec)	35.17	107.9	125.5	198.1	101.9
2	EC_GEN (µmho/cm)	202	101	90	95	91
3	pH_GEN (pH units)	7.8	7.8	7.7	7.1	7.5
4	TDS (mg/L)					
5	Temp (deg C)	26.0	24.8	24.9	24.3	24.5
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	92	36	34	36	33
2	B (mg/L)	0.23	0.04		0.00	
3	Ca (mg/L)	18	8	7	8	8
4	Cl (mg/L)	9.9	7.3	6.7	6.3	6.0
5	F (mg/L)	0.17	0.06	0.10	0.09	0.12
6	Fe (mg/L)	0.2	0.2	0.2	0.2	
7	HCO3 (mg/L)	112	50	41	44	41
8	K (mg/L)	0.8	0.9	0.7	1.1	0.8
9	Mg (mg/L)	8.7	4.6	4.6	3.9	3.9
10	Na (mg/L)	12.0	4.6	3.7	4.9	4.3
11	NO2+NO3 (mg N/L)	0.35	0.49	0.55	0.88	0.90
12	NO2-N (mgN/L)	0.01	0.00	0.00	0.00	0.02
13	NO3-N (mgN/L)	0.34	0.49	0.54	0.88	0.88
14	o-PO4-P (mg P/L)		0.000	1.250	0.003	
15	SiO2 (mg/L)	14.3	11.5	11.1	11.2	
16	SO4 (mg/L)	1.9	2.1	2.6	3.0	2.7
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	44	21	18	21	20
2	HAR_Total (mgCaCO3/L)	80	40	37	37	36
3	Na% (%)	24	20	17	22	21
4	RSC (-)	0.2	0.0	0.0	0.0	0.0
5	SAR (-)	0.6	0.3	0.3	0.3	0.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2008-2018

Station Name : Chunchunkatte (CC000V7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2013	2014	2015	2016	2017
	PHYSICAL					
1	Q (cumec)	205.7	229.6	54.00	88.74	112.4
2	EC_GEN (µmho/cm)	110	152	136	89	77
3	pH_GEN (pH units)	7.4	7.6	7.5	7.1	7.5
4	TDS (mg/L)				55	50
5	Temp (deg C)	22.9	23.3	23.7	25.0	24.6
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	35	36	48	19	28
2	B (mg/L)	0.02	0.10	0.36	0.15	0.23
3	Ca (mg/L)	10	10	13	9	7
4	Cl (mg/L)	9.9	8.5	11.7	13.8	5.4
5	F (mg/L)	0.07	0.17	0.15		0.05
6	Fe (mg/L)	0.3	0.2	0.1	0.2	0.2
7	HCO3 (mg/L)	43	44	59	23	34
8	K (mg/L)	0.9	1.2	1.0	0.8	0.8
9	Mg (mg/L)	4.6	4.9	5.2	3.6	3.8
10	Na (mg/L)	5.3	3.8	5.7	3.6	3.1
11	NO2+NO3 (mg N/L)	1.24	0.61	0.60	1.00	0.53
12	NO2-N (mgN/L)	0.01	0.04	0.01	0.03	0.01
13	NO3-N (mgN/L)	1.23	0.57	0.59	0.97	0.53
14	o-PO4-P (mg P/L)	0.039	0.018	0.186	0.057	0.031
15	SiO2 (mg/L)	10.4	8.8	15.3	15.8	7.4
16	SO4 (mg/L)	4.5	3.1	3.6	4.2	3.7
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					1.0
2	COD (mg/L)					
3	DO (mg/L)					6.6
4	DO_SAT% (%)					79
	TRACE & TOXIC					
1	As (µg/L)	6.1				2.0
2	Cd (µg/L)	0.0				1.0
3	Cr (µg/L)	0.9				14.0
4	Cu (µg/L)	0.4				3.0
5	Ni (µg/L)	8.8				
6	Pb (µg/L)	0.6				2.0
7	Zn (µg/L)	0.0				7.0
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	26	24	33	24	17
2	HAR_Total (mgCaCO3/L)	45	44	55	38	33
3	Na% (%)	20	16	18	17	17
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.3	0.2	0.3	0.3	0.2
	PESTICIDES					

Water Quality Seasonal Average for the period: 2008-2018

Station Name : Chunchunkatte (CC000V7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2008-2009	2009-2010	2010-2011	2011-2012	2012-2013
	PHYSICAL					
1	Q (cumec)	32.84	24.86	27.00	27.71	
2	EC_GEN (µmho/cm)	251	217	219	247	
3	pH_GEN (pH units)	7.8	8.0	8.0	7.3	
4	TDS (mg/L)					
5	Temp (deg C)	24.2	25.2	24.1	24.5	
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	117	101	98	108	
2	B (mg/L)	0.09	0.15	0.02	0.00	
3	Ca (mg/L)	23	21	20	23	
4	Cl (mg/L)	11.6	11.0	8.8	12.4	
5	F (mg/L)	0.13	0.16	0.16		
6	Fe (mg/L)	0.1	0.1	0.1	0.0	
7	HCO3 (mg/L)	142	124	120	132	
8	K (mg/L)	0.9	0.8	1.2	1.0	
9	Mg (mg/L)	10.4	9.1	10.0	9.4	
10	Na (mg/L)	14.9	11.9	9.9	13.1	
11	NO2+NO3 (mg N/L)	0.48	0.53	0.79	1.19	
12	NO2-N (mgN/L)	0.02	0.03	0.01	0.00	
13	NO3-N (mgN/L)	0.46	0.50	0.78	1.19	
14	o-PO4-P (mg P/L)	0.038	0.007	0.003	0.005	
15	SiO2 (mg/L)	18.8	15.6	11.6	15.5	
16	SO4 (mg/L)	1.9	2.1	3.3	3.4	
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	59	53	50	57	
2	HAR_Total (mgCaCO3/L)	102	91	91	96	
3	Na% (%)	24	22	19	22	
4	RSC (-)	0.3	0.2	0.2	0.2	
5	SAR (-)	0.6	0.5	0.5	0.6	
	PESTICIDES					

Water Quality Seasonal Average for the period: 2008-2018

Station Name : Chunchunkatte (CC000V7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
	PHYSICAL					
1	Q (cumec)	25.43	25.44	50.92	96.34	20.13
2	EC_GEN (µmho/cm)	247	254	217	95	163
3	pH_GEN (pH units)	7.7	8.0	7.8	7.4	7.9
4	TDS (mg/L)			116	56	93
5	Temp (deg C)	24.3	23.2	23.8	25.5	25.0
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	104	110	87	30	66
2	B (mg/L)	0.01	0.16	0.25	0.00	0.00
3	Ca (mg/L)	25	26	25	9	17
4	Cl (mg/L)	14.3	14.6	15.6	9.2	9.2
5	F (mg/L)	0.53	0.20	0.19		0.16
6	Fe (mg/L)	0.1	0.1	0.1	0.1	0.2
7	HCO3 (mg/L)	131	134	106	36	81
8	K (mg/L)	1.0	2.6	1.2	1.0	1.1
9	Mg (mg/L)	9.4	10.0	5.8	4.3	8.1
10	Na (mg/L)	13.6	10.7	9.3	3.8	6.0
11	NO2+NO3 (mg N/L)	1.11	1.22	0.68	1.04	2.40
12	NO2-N (mgN/L)	0.00	0.01	0.00	0.00	0.00
13	NO3-N (mgN/L)	1.11	1.21	0.68	1.04	2.40
14	o-PO4-P (mg P/L)	0.048	0.007	0.171	0.000	0.000
15	SiO2 (mg/L)	13.8	12.6	18.7	10.4	9.4
16	SO4 (mg/L)	2.7	3.8	3.0	0.7	3.0
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					0.8
2	COD (mg/L)					
3	DO (mg/L)					7.1
4	DO_SAT% (%)					87
	TRACE & TOXIC					
1	As (µg/L)					4.2
2	Cd (µg/L)		0.0			0.0
3	Cr (µg/L)		0.3			5.3
4	Cu (µg/L)		1.5			1.2
5	Ni (µg/L)		0.1			2.7
6	Pb (µg/L)		0.9			1.1
7	Zn (µg/L)		9.0			3.7
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	61	65	62	24	41
2	HAR_Total (mgCaCO3/L)	100	107	86	41	75
3	Na% (%)	23	17	19	16	15
4	RSC (-)	0.1	0.1	0.0	0.0	0.0
5	SAR (-)	0.6	0.5	0.4	0.3	0.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2008-2018

Station Name : Chunchunkatte (CC000V7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer				
		Mar - May				
		2009	2010	2011	2012	2013
	PHYSICAL					
1	Q (cumec)					
2	EC_GEN (µmho/cm)					
3	pH_GEN (pH units)					
4	TDS (mg/L)					
5	Temp (deg C)					
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)					
2	B (mg/L)					
3	Ca (mg/L)					
4	Cl (mg/L)					
5	F (mg/L)					
6	Fe (mg/L)					
7	HCO3 (mg/L)					
8	K (mg/L)					
9	Mg (mg/L)					
10	Na (mg/L)					
11	NO2+NO3 (mg N/L)					
12	NO2-N (mgN/L)					
13	NO3-N (mgN/L)					
14	o-PO4-P (mg P/L)					
15	SiO2 (mg/L)					
16	SO4 (mg/L)					
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)					
2	HAR_Total (mgCaCO3/L)					
3	Na% (%)					
4	RSC (-)					
5	SAR (-)					
	PESTICIDES					

Water Quality Seasonal Average for the period: 2008-2018

Station Name : Chunchunkatte (CC000V7)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer				
		Mar - May				
		2014	2015	2016	2017	2018
	PHYSICAL					
1	Q (cumec)					
2	EC_GEN (µmho/cm)					
3	pH_GEN (pH units)					
4	TDS (mg/L)					
5	Temp (deg C)					
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)					
2	B (mg/L)					
3	Ca (mg/L)					
4	Cl (mg/L)					
5	F (mg/L)					
6	Fe (mg/L)					
7	HCO3 (mg/L)					
8	K (mg/L)					
9	Mg (mg/L)					
10	Na (mg/L)					
11	NO2+NO3 (mg N/L)					
12	NO2-N (mgN/L)					
13	NO3-N (mgN/L)					
14	o-PO4-P (mg P/L)					
15	SiO2 (mg/L)					
16	SO4 (mg/L)					
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)					
2	COD (mg/L)					
3	DO (mg/L)					
4	DO_SAT% (%)					
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Ni (µg/L)					
6	Pb (µg/L)					
7	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)					
2	HAR_Total (mgCaCO3/L)					
3	Na% (%)					
4	RSC (-)					
5	SAR (-)					
	PESTICIDES					

HISTORY SHEET

Water Year : 2017-2018

Site : KUDIGE State : Karnataka Basin : Cauvery Tributary : - Sub-Sub Tributary : Division : Cauvery Division, Bangalore Drainage Area : 1934 Sq. Km. Latitude : 12°31'00" Zero of Gauge (m) : 809.000 (m.s.l) Opening Date Gauge : 01/11/1973 Discharge : 01/11/1973 Sediment : 01/11/1973 Water Quality : 01/06/1978	Code : CC000Y5 District : Coorg Independent River : Cauvery Sub Tributary : Local River : Cauvery Sub-Division : Upper Cauvery SD, Bangalore Bank : Left Longitude : 75°57'00" 01/11/1973 Closing Date
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Water Quality Datasheet for the period : 2017-2018

Station Name : Kudige (CC000Y5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/06/2017	03/07/2017	04/08/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	6.48	233.0	208.7
2	Colour_Cod (-)		Light Brown	
3	EC_GEN (µmho/cm)		48	
4	Odour_Code (-)		odour free	
5	pH_GEN (pH units)		7.1	
6	TDS (mg/L)		32	
7	Temp (deg C)		24.0	
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	
2	ALK-TOT (mgCaCO3/L)		16	
3	B (mg/L)		0.21	
4	Ca (mg/L)		5	
5	Cl (mg/L)		3.6	
6	CO3 (mg/L)		0.0	
7	F (mg/L)		0.04	
8	Fe (mg/L)		0.1	
9	HCO3 (mg/L)		19	
10	K (mg/L)		0.5	
11	Mg (mg/L)		1.6	
12	Na (mg/L)		1.9	
13	NO2+NO3 (mg N/L)		0.21	
14	NO2-N (mgN/L)		0.00	
15	NO3-N (mgN/L)		0.21	
16	o-PO4-P (mg P/L)		0.000	
17	SiO2 (mg/L)		8.8	
18	SO4 (mg/L)		3.4	
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		0.5	
2	COD (mg/L)			
3	DO (mg/L)		4.9	
4	DO_SAT% (%)		58	
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)			3.0
2	Cd (µg/L)			0.0
3	Cr (µg/L)			11.0
4	Cu (µg/L)			2.0
5	Ni (µg/L)			
6	Pb (µg/L)			1.0
7	Zn (µg/L)			3.0
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		13	
2	HAR_Total (mgCaCO3/L)		19	
3	Na% (%)		17	
4	RSC (-)		0.0	
5	SAR (-)		0.2	
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Kudige (CC000Y5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	04/09/2017	03/10/2017	09/11/2017
		A	A	A
	PHYSICAL			
1	Q (cumec)	258.4	246.2	43.62
2	Colour_Cod (-)	Clear		Clear
3	EC_GEN (µmho/cm)	51		72
4	Odour_Code (-)	odour free		odour free
5	pH_GEN (pH units)	7.2		7.3
6	TDS (mg/L)	34		42
7	Temp (deg C)	24.0		25.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0		0.0
2	ALK-TOT (mgCaCO3/L)	20		23
3	B (mg/L)	0.13		0.11
4	Ca (mg/L)	6		6
5	Cl (mg/L)	3.6		5.7
6	CO3 (mg/L)	0.0		0.0
7	F (mg/L)	0.04		0.04
8	Fe (mg/L)	0.2		0.2
9	HCO3 (mg/L)	24		28
10	K (mg/L)	0.7		0.8
11	Mg (mg/L)	0.7		3.5
12	Na (mg/L)	2.5		3.0
13	NO2+NO3 (mg N/L)	0.36		1.30
14	NO2-N (mgN/L)	0.01		0.01
15	NO3-N (mgN/L)	0.35		1.29
16	o-PO4-P (mg P/L)	0.000		0.000
17	SiO2 (mg/L)	1.9		2.8
18	SO4 (mg/L)	0.7		1.1
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.4		0.7
2	COD (mg/L)			
3	DO (mg/L)	6.6		6.5
4	DO_SAT% (%)	78		79
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)			
2	Cd (µg/L)			
3	Cr (µg/L)			
4	Cu (µg/L)			
5	Ni (µg/L)			
6	Pb (µg/L)			
7	Zn (µg/L)			
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	16		15
2	HAR_Total (mgCaCO3/L)	19		30
3	Na% (%)	22		18
4	RSC (-)	0.0		0.0
5	SAR (-)	0.3		0.2
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Kudige (CC000Y5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	04/12/2017	01/01/2018	01/02/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	38.80	11.89	8.93
2	Colour_Cod (-)		Clear	
3	EC_GEN (µmho/cm)		95	
4	Odour_Code (-)		odour free	
5	pH_GEN (pH units)		7.6	
6	TDS (mg/L)		70	
7	Temp (deg C)		22.0	
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)		0.0	
2	ALK-TOT (mgCaCO3/L)		39	
3	B (mg/L)		0.00	
4	Ca (mg/L)		9	
5	Cl (mg/L)		7.5	
6	CO3 (mg/L)		0.0	
7	F (mg/L)		0.06	
8	Fe (mg/L)		0.2	
9	HCO3 (mg/L)		47	
10	K (mg/L)		0.9	
11	Mg (mg/L)		3.6	
12	Na (mg/L)		4.0	
13	NO2+NO3 (mg N/L)		0.67	
14	NO2-N (mgN/L)		0.01	
15	NO3-N (mgN/L)		0.66	
16	o-PO4-P (mg P/L)		0.000	
17	SiO2 (mg/L)		7.6	
18	SO4 (mg/L)		0.6	
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)		0.9	
2	COD (mg/L)			
3	DO (mg/L)		7.0	
4	DO_SAT% (%)		80	
5	FCol-MPN (MPN/100mL)			
6	Tcol-MPN (MPN/100mL)			
	TRACE & TOXIC			
1	As (µg/L)	2.7		
2	Cd (µg/L)	0.0		
3	Cr (µg/L)	5.0		
4	Cu (µg/L)	1.6		
5	Ni (µg/L)	0.9		
6	Pb (µg/L)	0.1		
7	Zn (µg/L)	2.4		
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)		23	
2	HAR_Total (mgCaCO3/L)		38	
3	Na% (%)		18	
4	RSC (-)		0.0	
5	SAR (-)		0.3	
	PESTICIDES			

Water Quality Datasheet for the period : 2017-2018

Station Name : Kudige (CC000Y5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

Sub-Division : Upper Cauvery SD, Bangalore

River Water Analysis

S.No	Parameters	01/03/2018	04/04/2018	01/05/2018
		A	A	A
	PHYSICAL			
1	Q (cumec)	2.920	1.800	3.127
2	Colour_Cod (-)	Clear	Clear	Clear
3	EC_GEN (µmho/cm)	117	188	130
4	Odour_Code (-)	odour free	odour free	odour free
5	pH_GEN (pH units)	7.1	8.0	7.5
6	TDS (mg/L)	96	124	72
7	Temp (deg C)	24.0	28.0	28.0
	CHEMICAL			
1	Alk-Phen (mgCaCO3/L)	0.0	0.0	0.0
2	ALK-TOT (mgCaCO3/L)	47	72	59
3	B (mg/L)	0.00	0.04	0.07
4	Ca (mg/L)	10	11	11
5	Cl (mg/L)	7.5	11.7	6.0
6	CO3 (mg/L)	0.0	0.0	0.0
7	F (mg/L)	0.04	0.02	0.08
8	Fe (mg/L)	0.0	0.0	0.2
9	HCO3 (mg/L)	57	88	72
10	K (mg/L)	1.2	2.1	1.5
11	Mg (mg/L)	5.6	11.2	7.4
12	Na (mg/L)	5.0	10.1	4.0
13	NO2+NO3 (mg N/L)	0.45	0.32	0.67
14	NO2-N (mgN/L)	0.00	0.00	0.01
15	NO3-N (mgN/L)	0.45	0.32	0.66
16	o-PO4-P (mg P/L)	0.072	0.052	0.000
17	SiO2 (mg/L)	12.0	12.0	11.9
18	SO4 (mg/L)	0.5	7.9	0.6
	BIOLOGICAL/BACTERIOLOGICAL			
1	BOD3-27 (mg/L)	0.4	2.0	0.6
2	COD (mg/L)		10.0	10.0
3	DO (mg/L)	5.8	6.3	5.7
4	DO_SAT% (%)	69	80	73
5	FCol-MPN (MPN/100mL)			44
6	Tcol-MPN (MPN/100mL)			280
	TRACE & TOXIC			
1	As (µg/L)		0.8	
2	Cd (µg/L)		0.0	
3	Cr (µg/L)		6.4	
4	Cu (µg/L)		1.6	
5	Ni (µg/L)		24.4	
6	Pb (µg/L)		1.1	
7	Zn (µg/L)		2.8	
	CHEMICAL INDICES			
1	HAR_Ca (mgCaCO3/L)	24	28	28
2	HAR_Total (mgCaCO3/L)	47	74	58
3	Na% (%)	18	22	13
4	RSC (-)	0.0	0.0	0.0
5	SAR (-)	0.3	0.5	0.2
	PESTICIDES			

Water Quality Summary for the period : 2017-2018

Station Name : Kudige (CC000Y5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

Sub-Division : Upper Cauvery SD, Bangalore

River Water Summary

S.No	Parameters	Number of Observations	Maximum	Minimum	Mean
	PHYSICAL				
1	Q (cumec)	365	948.0	1.730	97.59
2	EC_GEN (µmho/cm)	7	188	48	100
3	pH_GEN (pH units)	7	8.0	7.1	7.4
4	TDS (mg/L)	7	124	32	67
5	Temp (deg C)	7	28.0	22.0	25
	CHEMICAL				
1	Alk-Phen (mgCaCO3/L)	7	0.0	0.0	0
2	ALK-TOT (mgCaCO3/L)	7	72	16	39
3	B (mg/L)	7	0.21	0.00	0.08
4	Ca (mg/L)	7	11	5	8
5	Cl (mg/L)	7	11.7	3.6	6.5
6	CO3 (mg/L)	7	0.0	0.0	0
7	F (mg/L)	7	0.08	0.02	0.04
8	Fe (mg/L)	7	0.2	0.0	0.1
9	HCO3 (mg/L)	7	88	19	48
10	K (mg/L)	7	2.1	0.5	1.1
11	Mg (mg/L)	7	11.2	0.7	4.8
12	Na (mg/L)	7	10.1	1.9	4.4
13	NO2+NO3 (mg N/L)	7	1.30	0.21	0.57
14	NO2-N (mgN/L)	7	0.01	0.00	0.01
15	NO3-N (mgN/L)	7	1.29	0.21	0.56
16	o-PO4-P (mg P/L)	7	0.072	0.000	0.018
17	SiO2 (mg/L)	7	12.0	1.9	8.1
18	SO4 (mg/L)	7	7.9	0.5	2.1
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	7	2.0	0.4	0.8
2	COD (mg/L)	2	10.0	10.0	10
3	DO (mg/L)	7	7.0	4.9	6.1
4	DO_SAT% (%)	7	80	58	74
5	FCol-MPN (MPN/100mL)	1	44	44	44
6	Tcol-MPN (MPN/100mL)	1	280	280	280
	TRACE & TOXIC				
1	As (µg/L)	3	3.0	0.8	2.2
2	Cd (µg/L)	3	0.0	0.0	0
3	Cr (µg/L)	3	11.0	5.0	7.4
4	Cu (µg/L)	3	2.0	1.6	1.7
5	Ni (µg/L)	2	24.4	0.9	12.7
6	Pb (µg/L)	3	1.1	0.1	0.7
7	Zn (µg/L)	3	3.0	2.4	2.7
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	7	28	13	21
2	HAR_Total (mgCaCO3/L)	7	74	19	41
3	Na% (%)	7	22	13	18
4	RSC (-)	7	0.0	0.0	0
5	SAR (-)	7	0.5	0.2	0.3
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kudige (CC000Y5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2007	2008	2009	2010	2011
	PHYSICAL					
1	Q (cumec)		214.1	195.2	213.8	272.9
2	EC_GEN (µmho/cm)		87	49	45	50
3	pH_GEN (pH units)		7.5	7.4	7.4	6.9
4	TDS (mg/L)					
5	Temp (deg C)		22.3	25.5	26.3	24.5
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)		23	15	14	14
2	B (mg/L)			0.01		0.01
3	Ca (mg/L)		6	4	4	5
4	Cl (mg/L)		12.7	5.9	4.8	6.0
5	F (mg/L)		0.01	0.13	0.02	0.03
6	Fe (mg/L)			0.2	0.1	0.1
7	HCO3 (mg/L)		28	19	17	17
8	K (mg/L)		1.1	0.7	0.5	0.6
9	Mg (mg/L)		1.9	2.4	1.9	1.9
10	Na (mg/L)		8.4	2.5	2.2	2.3
11	NO2+NO3 (mg N/L)		0.55	0.49	0.56	0.60
12	NO2-N (mgN/L)		0.00	0.00	0.00	0.00
13	NO3-N (mgN/L)		0.55	0.49	0.53	0.60
14	o-PO4-P (mg P/L)			0.047	0.005	0.005
15	SiO2 (mg/L)			8.3	10.1	9.5
16	SO4 (mg/L)		2.0	1.8	1.5	2.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)		0.9	2.3		0.2
2	COD (mg/L)					
3	DO (mg/L)		6.7	6.9	6.9	6.4
4	DO_SAT% (%)		77	82	85	76
	TRACE & TOXIC					
1	As (µg/L)					
2	Cd (µg/L)					
3	Cr (µg/L)					
4	Cu (µg/L)					
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)					
8	Zn (µg/L)					
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)		14	10	10	12
2	HAR_Total (mgCaCO3/L)		22	20	18	20
3	Na% (%)		44	21	21	19
4	RSC (-)		0.0	0.0	0.0	0.0
5	SAR (-)		0.8	0.2	0.2	0.2
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kudige (CC000Y5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood				
		Jun - Oct				
		2012	2013	2014	2015	2016
	PHYSICAL					
1	Q (cumec)	118.9	410.5	425.8	135.6	293.9
2	EC_GEN (µmho/cm)	49	73	53	83	49
3	pH_GEN (pH units)	7.0	7.5	7.4	7.3	6.8
4	TDS (mg/L)					25
5	Temp (deg C)	25.5	24.5	23.0	23.0	23.0
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	14	21	16	26	12
2	B (mg/L)		0.01	0.06	0.75	0.21
3	Ca (mg/L)	4	6	5	7	3
4	Cl (mg/L)	5.0	7.8	6.0	8.0	5.7
5	F (mg/L)	0.28	0.07	0.09	0.08	
6	Fe (mg/L)		0.2	0.4	0.2	0.4
7	HCO3 (mg/L)	17	25	20	32	15
8	K (mg/L)	0.7	0.9	0.6	0.8	0.4
9	Mg (mg/L)	2.2	2.9	2.4	3.6	1.1
10	Na (mg/L)	2.7	3.6	2.4	4.2	6.1
11	NO2+NO3 (mg N/L)	0.77	0.89	0.44	0.71	0.62
12	NO2-N (mgN/L)	0.01	0.03	0.06	0.03	0.01
13	NO3-N (mgN/L)	0.76	0.85	0.39	0.68	0.62
14	o-PO4-P (mg P/L)		0.036	0.010	0.186	0.005
15	SiO2 (mg/L)		12.4	10.5	15.8	15.6
16	SO4 (mg/L)	1.9	3.2	1.8	1.9	4.1
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.6	1.1	1.2	1.1	1.2
2	COD (mg/L)					
3	DO (mg/L)	6.7	6.3	6.2	5.9	5.6
4	DO_SAT% (%)	81	75	73	69	65
	TRACE & TOXIC					
1	As (µg/L)	1.0	3.1			
2	Cd (µg/L)		0.0			
3	Cr (µg/L)	4.6	1.5			
4	Cu (µg/L)	5.2	0.4			
5	Hg (µg/L)					
6	Ni (µg/L)	0.7	6.2			
7	Pb (µg/L)		1.1			
8	Zn (µg/L)		0.0			
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	9	16	12	17	8
2	HAR_Total (mgCaCO3/L)	18	28	22	32	12
3	Na% (%)	24	22	19	22	49
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.3	0.3	0.2	0.3	1.0
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kudige (CC000Y5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Flood	Winter			
		Jun - Oct	Nov - Feb			
		2017	2007-2008	2008-2009	2009-2010	2010-2011
	PHYSICAL					
1	Q (cumec)	233.4		21.19	30.89	37.82
2	EC_GEN (µmho/cm)	50		112	100	100
3	pH_GEN (pH units)	7.1		7.8	7.5	7.5
4	TDS (mg/L)	33				
5	Temp (deg C)	24.0		23.5	24.3	24.3
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	18		43	35	34
2	B (mg/L)	0.17		0.11	0.05	0.02
3	Ca (mg/L)	6		9	7	7
4	Cl (mg/L)	3.5		8.7	8.8	7.8
5	F (mg/L)	0.04		0.11	0.08	0.06
6	Fe (mg/L)	0.1		0.1	0.2	0.1
7	HCO3 (mg/L)	22		52	43	42
8	K (mg/L)	0.6		0.8	1.3	0.8
9	Mg (mg/L)	1.2		5.3	4.9	4.4
10	Na (mg/L)	2.2		5.3	4.5	4.5
11	NO2+NO3 (mg N/L)	0.29		0.59	0.55	0.76
12	NO2-N (mgN/L)	0.01		0.00	0.01	0.01
13	NO3-N (mgN/L)	0.28		0.59	0.54	0.76
14	o-PO4-P (mg P/L)	0.000		0.031	0.005	0.005
15	SiO2 (mg/L)	5.4		16.6	12.8	13.0
16	SO4 (mg/L)	2.1		1.0	1.2	2.2
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.4		0.8	1.9	1.0
2	COD (mg/L)					
3	DO (mg/L)	5.7		6.0	6.8	6.6
4	DO_SAT% (%)	68		70	80	79
	TRACE & TOXIC					
1	As (µg/L)	3.0				
2	Cd (µg/L)	0.0				
3	Cr (µg/L)	11.0				
4	Cu (µg/L)	2.0				
5	Hg (µg/L)					
6	Ni (µg/L)					
7	Pb (µg/L)	1.0				
8	Zn (µg/L)	3.0				
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	14		22	18	18
2	HAR_Total (mgCaCO3/L)	19		44	38	36
3	Na% (%)	20		20	20	22
4	RSC (-)	0.0		0.0	0.0	0.0
5	SAR (-)	0.2		0.3	0.3	0.3
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kudige (CC000Y5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter				
		Nov - Feb				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	PHYSICAL					
1	Q (cumec)	27.67	18.11	36.29	25.64	48.35
2	EC_GEN (µmho/cm)	124	97	109	117	108
3	pH_GEN (pH units)	7.0	7.2	7.3	7.7	7.7
4	TDS (mg/L)					55
5	Temp (deg C)	24.5	26.0	22.5	23.0	22.5
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	44	30	38	37	32
2	B (mg/L)			0.01	0.14	0.19
3	Ca (mg/L)	10	10	9	12	9
4	Cl (mg/L)	9.4	8.5	9.9	11.9	12.8
5	F (mg/L)		0.55	0.57	0.09	0.09
6	Fe (mg/L)	0.1		0.2	0.1	0.1
7	HCO3 (mg/L)	54	37	47	46	39
8	K (mg/L)	0.9	0.8	0.9	2.2	1.2
9	Mg (mg/L)	5.8	3.4	4.1	4.4	4.4
10	Na (mg/L)	5.3	4.2	7.0	4.6	5.2
11	NO2+NO3 (mg N/L)	1.18	1.11	1.30	1.27	0.78
12	NO2-N (mgN/L)	0.01	0.01	0.01	0.01	0.00
13	NO3-N (mgN/L)	1.17	1.10	1.29	1.27	0.78
14	o-PO4-P (mg P/L)	0.010		0.010	0.005	0.253
15	SiO2 (mg/L)			13.4	9.0	15.0
16	SO4 (mg/L)	2.4	1.7	1.8	3.6	2.6
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.7	0.4	0.7	1.6	1.0
2	COD (mg/L)					
3	DO (mg/L)	6.0	6.1	6.3	6.6	7.4
4	DO_SAT% (%)	72	76	73	77	85
	TRACE & TOXIC					
1	As (µg/L)	0.3	3.1			
2	Cd (µg/L)	0.2	0.0		0.0	
3	Cr (µg/L)	2.4	0.4		0.4	
4	Cu (µg/L)	22.3	1.2		11.9	
5	Hg (µg/L)					
6	Ni (µg/L)	3.1	8.2		2.7	
7	Pb (µg/L)	0.2			1.4	
8	Zn (µg/L)				8.3	
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	24	24	22	30	22
2	HAR_Total (mgCaCO3/L)	48	38	39	48	40
3	Na% (%)	19	19	28	16	22
4	RSC (-)	0.0	0.0	0.0	0.0	0.0
5	SAR (-)	0.3	0.3	0.5	0.3	0.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kudige (CC000Y5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Winter		Summer		
		Nov - Feb		Mar - May		
		2016-2017	2017-2018	2008	2009	2010
	PHYSICAL					
1	Q (cumec)	49.56	31.44	4.811	2.951	7.324
2	EC_GEN (µmho/cm)	72	84	144	161	132
3	pH_GEN (pH units)	7.3	7.5	7.6	7.6	7.6
4	TDS (mg/L)	39	56			
5	Temp (deg C)	26.0	23.5	28.5	27.8	28.5
	CHEMICAL					
1	ALK-TOT (mgCaCO3/L)	19	31	38	64	53
2	B (mg/L)	0.17	0.05	0.06	0.09	0.06
3	Ca (mg/L)	4	8	13	12	10
4	Cl (mg/L)	8.3	6.6	19.9	13.3	9.6
5	F (mg/L)		0.05	0.04	0.09	0.08
6	Fe (mg/L)	0.1	0.2	0.1	0.1	0.1
7	HCO3 (mg/L)	23	38	47	78	64
8	K (mg/L)	1.0	0.8	1.6	1.6	1.3
9	Mg (mg/L)	4.7	3.6	3.4	7.3	6.3
10	Na (mg/L)	3.5	3.5	10.8	8.7	6.3
11	NO2+NO3 (mg N/L)	0.63	0.99	0.01	0.65	0.56
12	NO2-N (mgN/L)	0.00	0.01	0.00	0.00	0.00
13	NO3-N (mgN/L)	0.63	0.97	0.01	0.65	0.56
14	o-PO4-P (mg P/L)	0.021	0.000	0.041	0.016	0.005
15	SiO2 (mg/L)	15.2	5.2	12.6	18.1	15.0
16	SO4 (mg/L)	4.1	0.8	3.2	2.4	1.4
	BIOLOGICAL/BACTERIOLOGICAL					
1	BOD3-27 (mg/L)	0.5	0.8	1.2	1.3	0.9
2	COD (mg/L)					
3	DO (mg/L)	5.2	6.8	7.1	5.7	5.7
4	DO_SAT% (%)	62	79	91	72	74
	TRACE & TOXIC					
1	As (µg/L)	1.3	2.7	7.3		
2	Cd (µg/L)	0.0	0.0	1.0		
3	Cr (µg/L)	0.6	5.0			
4	Cu (µg/L)	0.9	1.6	4.3	1.1	
5	Hg (µg/L)					
6	Ni (µg/L)	0.1	0.9		10.6	
7	Pb (µg/L)	1.4	0.1	1.4		
8	Zn (µg/L)	3.2	2.4	30.0		
	CHEMICAL INDICES					
1	HAR_Ca (mgCaCO3/L)	9	19	34	30	24
2	HAR_Total (mgCaCO3/L)	29	34	48	60	50
3	Na% (%)	21	18	32	23	21
4	RSC (-)	0.0	0.0	0.0	0.1	0.1
5	SAR (-)	0.3	0.3	0.7	0.5	0.4
	PESTICIDES					

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kudige (CC000Y5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2011	2012	2013	2014
	PHYSICAL				
1	Q (cumec)	8.766	5.747	2.493	3.666
2	EC_GEN (µmho/cm)	134	156	135	151
3	pH_GEN (pH units)	7.1	7.1	7.4	7.3
4	TDS (mg/L)				
5	Temp (deg C)	28.0	26.0	28.3	28.3
	CHEMICAL				
1	ALK-TOT (mgCaCO3/L)	42	55	45	54
2	B (mg/L)	0.03		0.00	0.14
3	Ca (mg/L)	10	11	13	12
4	Cl (mg/L)	11.0	12.2	11.4	12.2
5	F (mg/L)	0.13	0.09		0.54
6	Fe (mg/L)	0.0		0.1	0.1
7	HCO3 (mg/L)	51	67	55	66
8	K (mg/L)	1.7	1.8	1.4	3.8
9	Mg (mg/L)	5.8	7.3	4.4	5.3
10	Na (mg/L)	5.9	7.2	7.3	8.5
11	NO2+NO3 (mg N/L)	0.90	1.01	1.17	1.18
12	NO2-N (mgN/L)	0.01	0.02	0.01	0.00
13	NO3-N (mgN/L)	0.88	0.99	1.16	1.18
14	o-PO4-P (mg P/L)	0.005		0.036	0.036
15	SiO2 (mg/L)	18.9		22.2	13.5
16	SO4 (mg/L)	3.6	3.9	2.9	3.5
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)		0.6	1.5	1.0
2	COD (mg/L)				
3	DO (mg/L)	5.4	6.4	5.7	4.8
4	DO_SAT% (%)	69	77	73	61
	TRACE & TOXIC				
1	As (µg/L)	1.5	0.7	2.3	0.1
2	Cd (µg/L)	0.0	0.0	0.2	0.0
3	Cr (µg/L)	1.1	3.0	0.6	0.6
4	Cu (µg/L)	4.1	10.5	3.7	0.4
5	Hg (µg/L)				
6	Ni (µg/L)		4.2	1.5	11.3
7	Pb (µg/L)	0.1	4.2	12.0	0.3
8	Zn (µg/L)		37.0	0.1	17.0
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	24	28	32	30
2	HAR_Total (mgCaCO3/L)	48	58	50	52
3	Na% (%)	20	21	23	24
4	RSC (-)	0.0	0.0	0.0	0.1
5	SAR (-)	0.4	0.4	0.4	0.5
	PESTICIDES				

Water Quality Seasonal Average for the period: 2007-2018

Station Name : Kudige (CC000Y5)

Division : Cauvery Division, Bangalore

Local River : Cauvery

River Water

Sub-Division : Upper Cauvery SD, Bangalore

S.No	Parameters	Summer			
		Mar - May			
		2015	2016	2017	2018
	PHYSICAL				
1	Q (cumec)	6.835	1.113	3.173	2.616
2	EC_GEN (µmho/cm)	132	162	112	145
3	pH_GEN (pH units)	7.5	7.4	7.3	7.5
4	TDS (mg/L)		76	77	97
5	Temp (deg C)	26.0	29.0	26.0	26.7
	CHEMICAL				
1	ALK-TOT (mgCaCO3/L)	42	53	40	59
2	B (mg/L)	0.33	0.20	0.39	0.04
3	Ca (mg/L)	10	14	9	11
4	Cl (mg/L)	14.6	17.6	8.0	8.4
5	F (mg/L)	0.09		0.08	0.04
6	Fe (mg/L)	0.1	0.1	0.1	0.1
7	HCO3 (mg/L)	51	65	49	72
8	K (mg/L)	2.5	1.4	1.5	1.6
9	Mg (mg/L)	6.3	6.3	6.0	8.1
10	Na (mg/L)	5.5	7.2	5.2	6.4
11	NO2+NO3 (mg N/L)	1.84	0.81	0.52	0.48
12	NO2-N (mgN/L)	0.03	0.02	0.01	0.00
13	NO3-N (mgN/L)	1.80	0.78	0.51	0.48
14	o-PO4-P (mg P/L)	0.021	0.010	0.031	0.041
15	SiO2 (mg/L)	5.8	21.1	11.5	11.9
16	SO4 (mg/L)	2.5	3.3	5.3	3.0
	BIOLOGICAL/BACTERIOLOGICAL				
1	BOD3-27 (mg/L)	0.3	0.5	0.9	1.0
2	COD (mg/L)				10.0
3	DO (mg/L)	5.5	5.2	5.1	5.9
4	DO_SAT% (%)	68	67	62	74
	TRACE & TOXIC				
1	As (µg/L)		4.1		0.8
2	Cd (µg/L)				0.0
3	Cr (µg/L)		0.9		6.4
4	Cu (µg/L)		0.9		1.6
5	Hg (µg/L)				
6	Ni (µg/L)		3.0		24.4
7	Pb (µg/L)				1.1
8	Zn (µg/L)		3.9		2.8
	CHEMICAL INDICES				
1	HAR_Ca (mgCaCO3/L)	26	36	23	26
2	HAR_Total (mgCaCO3/L)	52	62	48	60
3	Na% (%)	18	20	19	18
4	RSC (-)	0.0	0.0	0.0	0.0
5	SAR (-)	0.3	0.4	0.3	0.4
	PESTICIDES				

(केवल कार्यालय उपयोग हेतु)
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वार्षिक जल पुस्तिका

जल गुणवत्ता परिदृश्य

WATER YEAR BOOK WATER QUALITY SCENARIO

जून 2017 – मई 2018

JUNE 2017 – MAY 2018

कावेरी बेसिन

CAUVERY BASIN



कावेरी एवं दक्षिणी नदियाँ परिमण्डल, बेंगलुरु

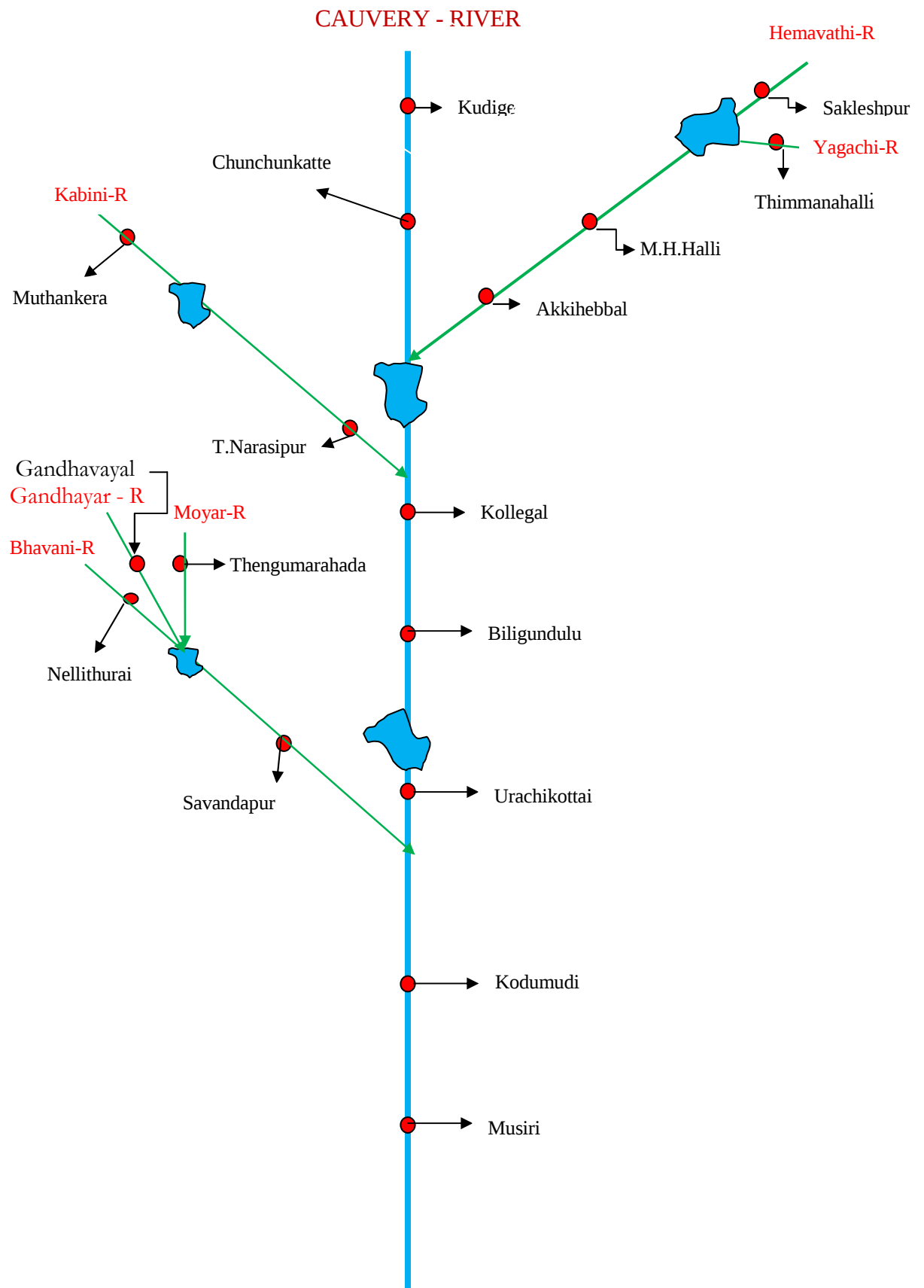
CAUVERY & SOUTHERN RIVERS CIRCLE, BENGALURU

कावेरी एवं दक्षिणी नदियाँ संगठन, कोयम्बतूर

CAUVERY & SOUTHERN RIVERS ORGANISATION, COIMBATORE

मार्च - 2019

MARCH – 2019



Line Diagram of Cauvery Basin Scenario

3. Water Quality Network:

River wise network details in Cauvery Basin

River	River Type	WQ Sites	Date of Opening	Drainage Area (Sq.Km)	State
Cauvery	Main River	Kudige	01/06/1978	1934	Karnataka
		Chunchunkatte	03/10/2008	2995	
		Kollegal	01/06/1978	21082	
		Biligundulu	01/06/1978	36682	Tamil Nadu
		Urachikottai	01/06/1979	44100	
		Kodumudi	01/06/1978	53233	
		Musiri	01/06/1978	66243	
Hemavathi	Tributary	Sakaleshpur	02/09/2002	617	Karnataka
		M.H. Halli	01/07/1980	3050	
		Akkihebbal	02/09/2002	5236	
Yagachi	Tributary	Thimmanahalli	02/09/2002	1010	Karnataka
Lakshmanthirtha	Tributary	K.M. Vadi	01/07/1979	1330	Karnataka
Kabini	Tributary	Muthankera	01/06/1978	1260	Kerala
		T.Narasipur	01/06/1978	7000	Karnataka
Suvarnavathi	Tributary	Bendrahalli	01/04/2008	1900	Karnataka
Shimsa	Tributary	T.K.Halli	02/06/1979	7890	Karnataka
Arkavathi	Tributary	T.Bekuppe	01/12/2003	3500	Karnataka
Chinnar	Tributary	Hogenakkal	01/11/2004	1636	Tamil Nadu
Palar	Tributary	Kudlur	02/02/2001	709	Karnataka
Thoppaiyar	Tributary	Thoppur	01/11/2001	362	Tamil Nadu
Sarabenga	Tributary	Thevur	01/10/2001	1248	Tamil Nadu
Chittar	Tributary	Sevanur	01/10/2001	258	Tamil Nadu
Bhavani	Tributary	Nellithurai	01/06/1979	1475	Tamil Nadu
		Savandapur	02/04/1979	5776	
Moyar	Tributary	Thengumarahada	01/06/1979	1370	Tamil Nadu
Noyyal	Tributary	Elunuthimangalam	03/10/2000	3386	Tamil Nadu
Amaravathi	Tributary	Nallamaranpatty	16/08/1978	9080	Tamil Nadu
Gandhayar	Tributary	Gandhavayal	01/04/2013	90.17	Tamil Nadu
Puravidaiyanar	Distributary	Gopurajapuram	01/10/2005		Tamil Nadu
Nattar	Distributary	Annavasal	01/09/2005		Pondicherry
Nandalar	Distributary	Nallathur	01/09/2008		Pondicherry
Noolar	Distributary	Menangudi	01/09/2005		Tamil Nadu
Arasalar	Distributary	Porakudi	01/09/2005		Tamil Nadu
Vanjiyar	Distributary	Peralam	01/09/2005		Tamil Nadu
Thirumalairajanar	Distributary	Thengudi	01/09/2005		Tamil Nadu

4. Analysis:

Water Quality monitoring provides information on the physical, chemical and biological status of water resources. The river water quality monitoring is a part of hydrological observation of Central Water Commission. The objectives of the river water quality monitoring is to assess the suitability of river water for various designated uses viz, irrigation, drinking purposes, out- door bathing and propagation of wildlife and fisheries, water quality improving or degrading etc.

River Water Quality Data of sites on the main river for the period given in Table – 1 has been taken into consideration for studying the WQ Scenario of the Rivers. Average of yearly Maximum, Average of yearly Minimum and Annual Average for the period of Since Inception, Last 10 years i.e. 2007 – 2008 to 2016 – 2017 and One year (2017 – 2018) for the major parameters like Electrical conductivity, pH, Fluoride, Biochemical Oxygen Demand and Dissolved Oxygen are taken into consideration for concluding the WQ Scenario of Cauvery, Hemavathi, Kabini and Bhavani Rivers.

Table-1

River	WQ Site Name	Year of Inception	Last 10 years	Last One Year
Cauvery	Kudige	1978 - 1979	2007-08 to 2016-17	2017 - 2018
	Chunchunkatte	2008 - 2009	2007-08 to 2016-17	2017 - 2018
	Kollegal	1978 - 1979	2007-08 to 2016-17	2017 - 2018
	Billigundulu	1978 - 1979	2007-08 to 2016-17	2017 - 2018
	Urachikottai	1979 - 1980	2007-08 to 2016-17	2017 - 2018
	Kodumudi	1979 - 1980	2007-08 to 2016-17	2017 - 2018
	Musiri	1979 - 1980	2007-08 to 2016-17	2017 - 2018
Hemavathi	Sakleshpur	2002 - 2003	2007-08 to 2016-17	2017 - 2018
	M. H. Halli	1980 - 1981	2007-08 to 2016-17	2017 - 2018
	Akkihebbal	2002 - 2003	2007-08 to 2016-17	2017 - 2018
Kabini	Muthankera	1990 - 1991	2007-08 to 2016-17	2017 - 2018
	T. Narasipur	1978 - 1979	2007-08 to 2016-17	2017 - 2018
Bhavani	Nellithurai	1979 - 1980	2007-08 to 2016-17	2017 - 2018
	Savandapur	1979 - 1980	2007-08 to 2016-17	2017 - 2018

WQ Scenario of these Rivers is concluded with relation to the Tolerance limits of selected pollution indicating parameters for inland surface waters designated for different uses as prescribed by the Bureau of Indian Standards (BIS IS: 2296-1982) which is

shown in Annexure - IV and Drinking Water Specification as prescribed by Bureau of Indian Standards (IS 10500: 2012) which is shown in Annexure - V.

4.1 Cauvery River:

The water quality scenario is being presented in pictorial graph among the sites **Kudige, Chunchunkatte, Kollegal, Biligundulu, Urachikottai, Kodumudi** and **Musiri** on river Cauvery under Cauvery Rivers Basin. The data details considered for water quality trend study from upstream to downstream of Cauvery River is given below.

4.1.1 Electrical Conductivity (EC) ($\mu\text{mhos/cm}$)

EC values for the period considered is given in Table - 2 and their graphical representation is given in Figure - 1.1, Figure - 1.2 & Figure - 1.3.

Table – 2

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Kudige	325	156	188	62	63	48	140	106	100
Chunchunkatte	237	241	201	73	75	50	153	158	105
Kollegal	444	445	403	168	158	143	319	335	296
Biligundulu	594	604	945	193	197	163	382	419	493
Urachikottai	499	454	511	201	197	113	351	333	386
Kodumudi	706	785	1112	236	243	371	456	477	672
Musiri	661	774	806	259	274	451	470	526	589

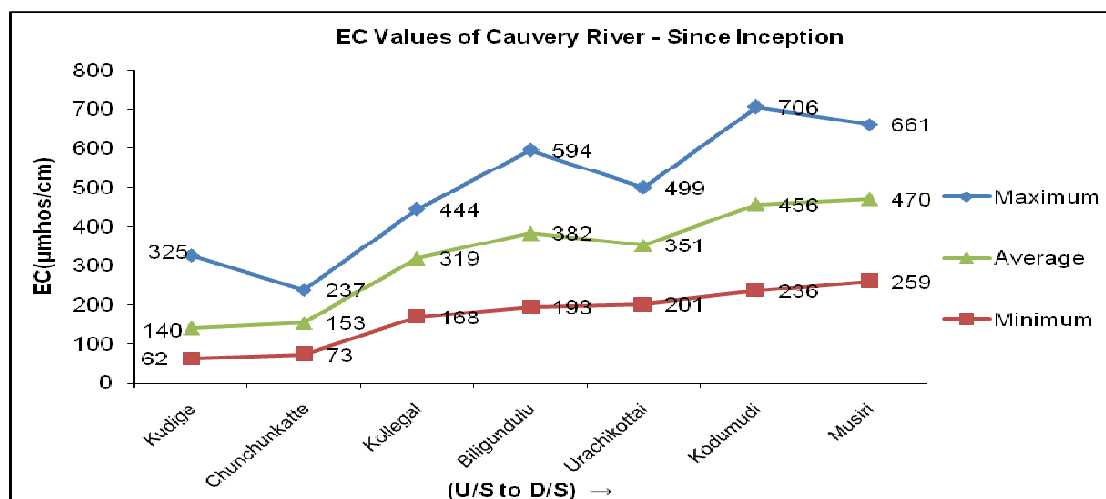


Figure - 1.1

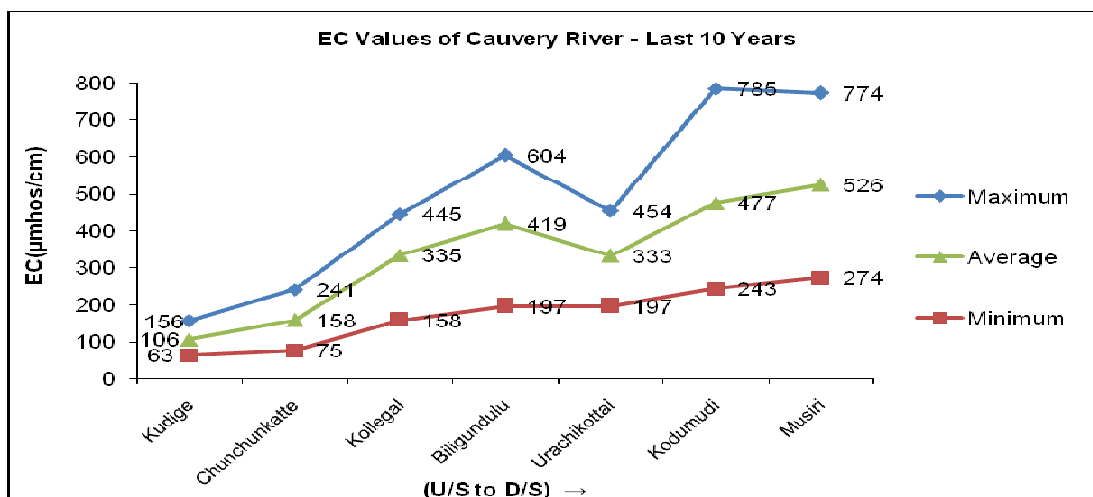


Figure - 1.2

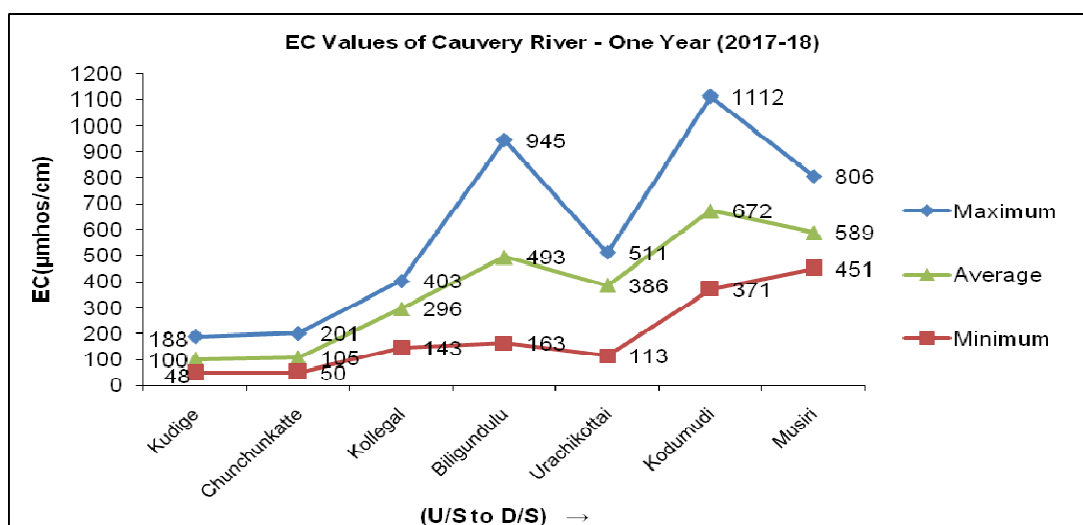


Figure - 1.3

4.1.2 pH

pH values for the period considered is given in Table - 3 and their graphical representation is given in Figure - 2.1, Figure - 2.2 & Figure - 2.3.

Table – 3

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Kudige	8.2	7.7	8.0	7.0	7.1	7.1	7.6	7.4	7.4
Chunchunkatte	7.9	7.9	7.9	7.3	7.3	7.1	7.6	7.6	7.6
Kollegal	8.2	8.2	8.0	7.2	7.3	7.2	7.8	7.8	7.6
Biligundulu	8.4	8.5	8.5	7.4	7.7	7.9	8.0	8.2	8.2
Urachikottai	8.4	8.5	8.8	7.5	7.7	7.1	8.0	8.1	8.2
Kodumudi	8.4	8.4	9.0	7.5	7.5	7.5	8.0	8.0	8.0
Musiri	8.5	8.5	8.5	7.6	7.6	7.4	8.1	8.1	8.1

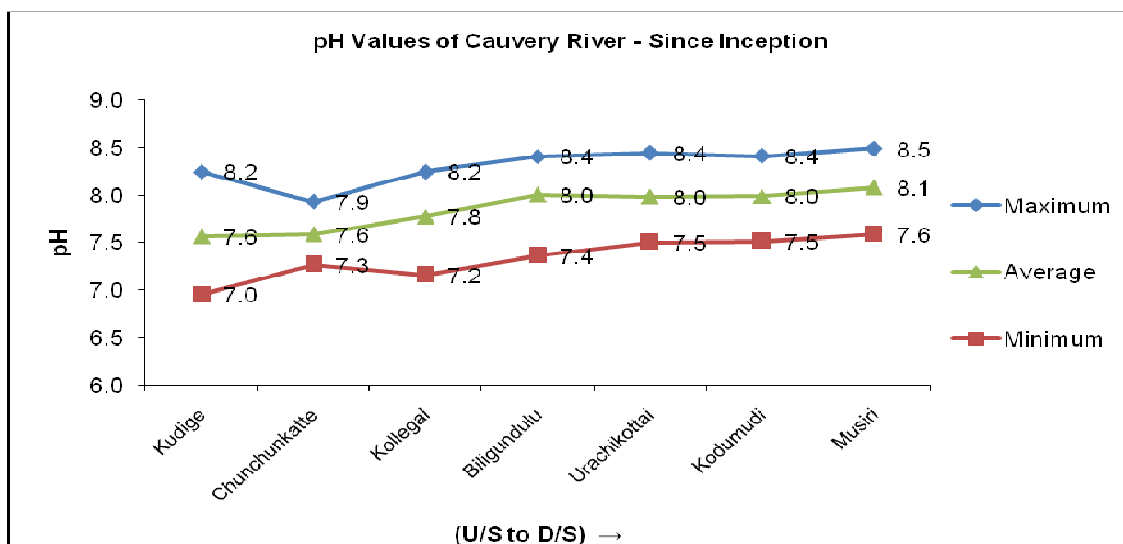


Figure - 2.1

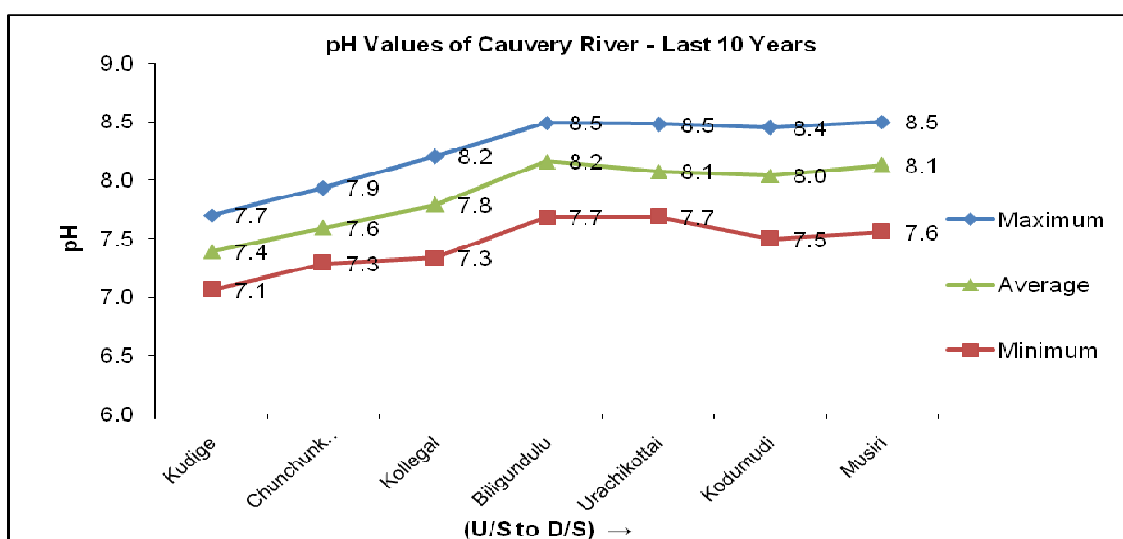


Figure - 2.2

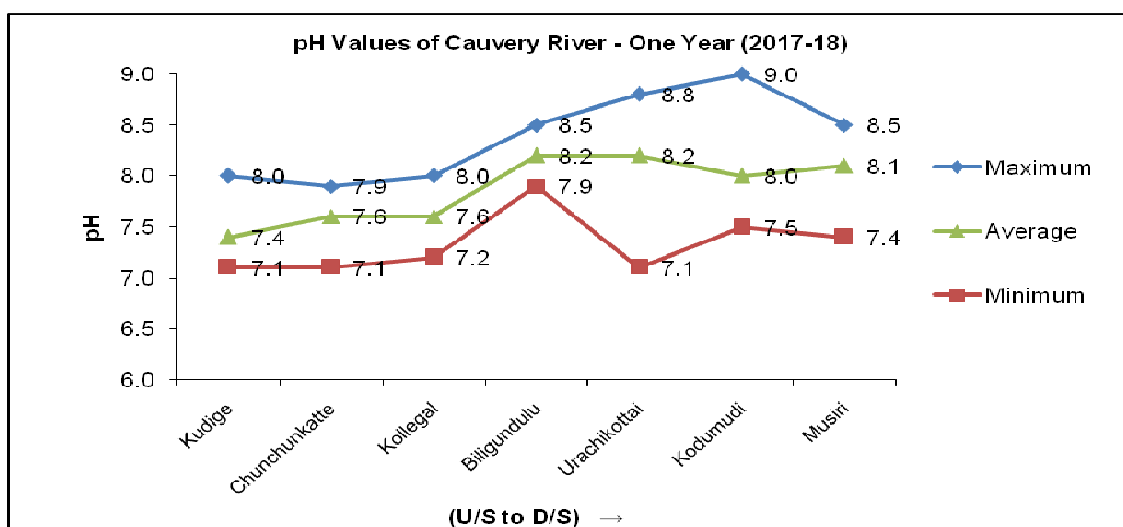


Figure - 2.3

4.1.3 Fluoride, mg/L

Fluoride values for the period considered is given in Table - 4 and their graphical representation is given in Figure - 3.1, Figure - 3.2 & Figure - 3.3.

Table – 4

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Kudige	0.82	0.25	0.08	0.11	0.05	0.02	0.31	0.13	0.04
Chunchunkatte	0.25	0.26	0.19	0.05	0.06	0.04	0.14	0.15	0.09
Kollegal	1.11	1.04	0.46	0.13	0.09	0.10	0.40	0.35	0.28
Biligundulu	1.32	2.26	0.76	0.14	0.16	0.11	0.45	0.55	0.41
Urachikottai	0.76	0.62	0.57	0.19	0.20	0.20	0.42	0.39	0.38
Kodumudi	0.87	0.82	0.54	0.22	0.20	0.27	0.46	0.45	0.39
Musiri	0.85	0.78	0.58	0.22	0.22	0.29	0.45	0.44	0.40

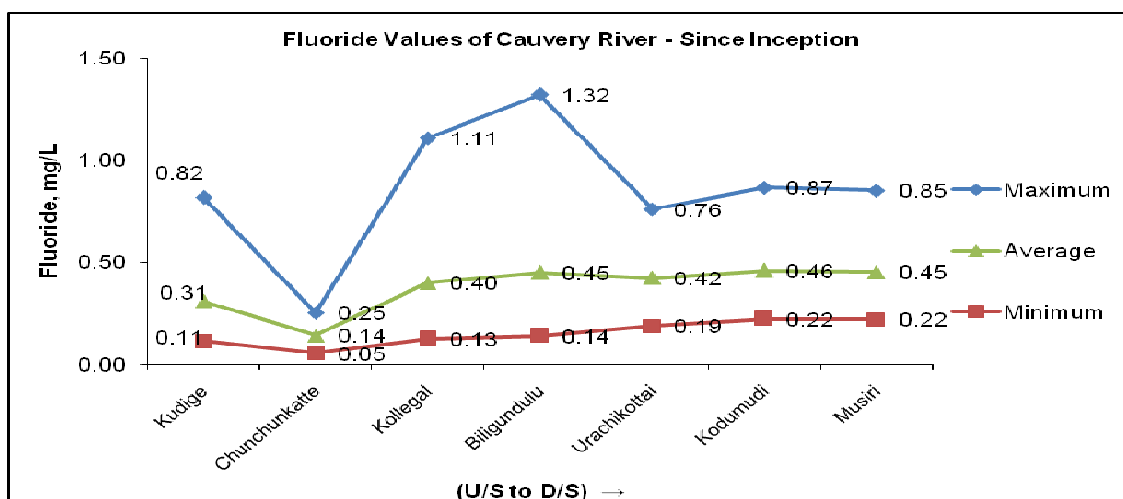


Figure - 3.1

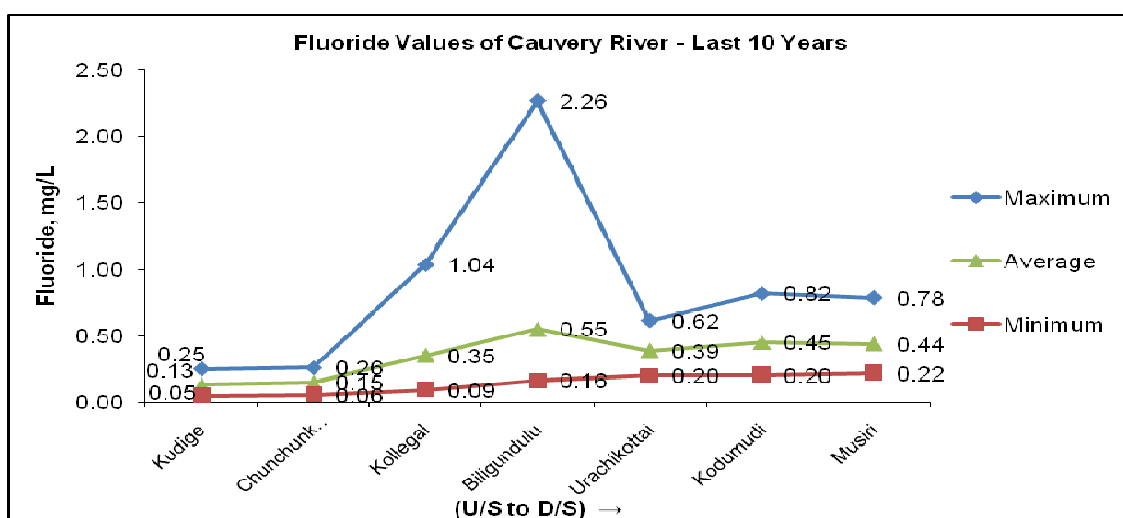


Figure - 3.2

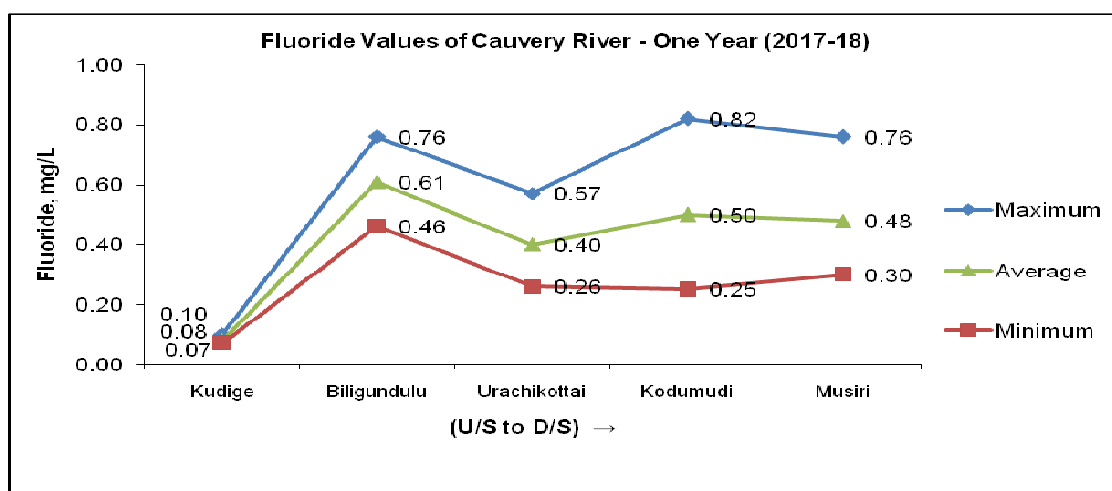


Figure - 3.3

4.1.4 BOD, mg/L

Biochemical Oxygen Demand (BOD) values for the period considered is given in Table - 5 and their graphical representation is given in Figure - 4.1, Figure - 4.2 & Figure - 4.3.

Table - 5

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Kudige	2.1	1.6	2.0	0.4	0.6	0.4	1.0	1.0	0.8
Chunchunkatte	NA	NA	1.7	NA	NA	0.4	NA	NA	0.9
Kollegal	2.5	1.9	1.3	0.5	0.7	0.4	1.4	1.1	0.8
Biligundulu	2.6	2.1	2.6	0.4	0.5	0.8	1.4	1.2	1.4
Urachikottai	4.1	4.1	5.3	0.9	0.8	1.4	2.3	2.2	3.4
Kodumudi	3.9	3.8	5.5	0.8	0.7	1.0	1.9	1.8	3.2
Musiri	3.1	3.2	2.6	0.6	0.6	1.2	1.6	1.6	1.9

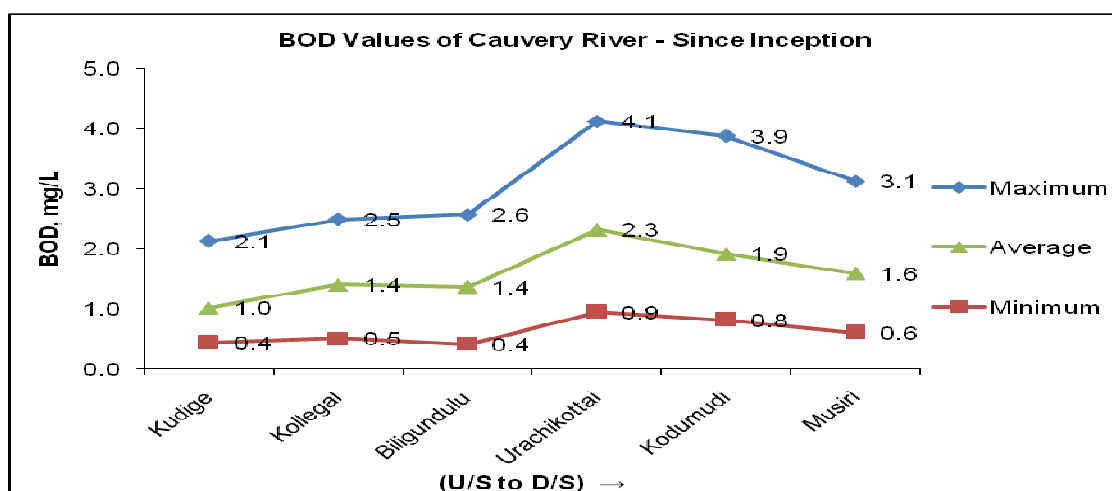


Figure - 4.1

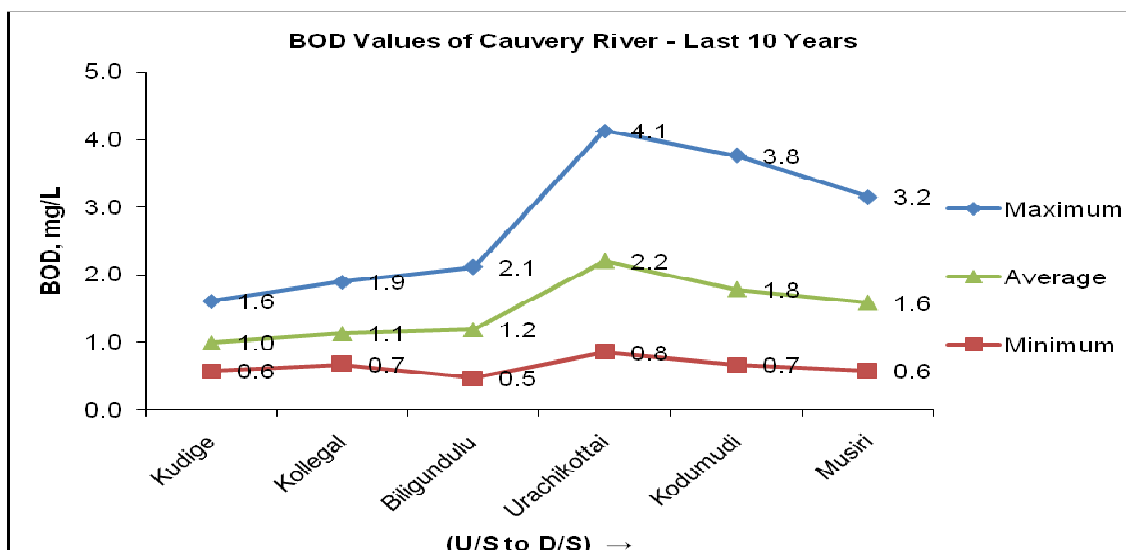


Figure - 4.2

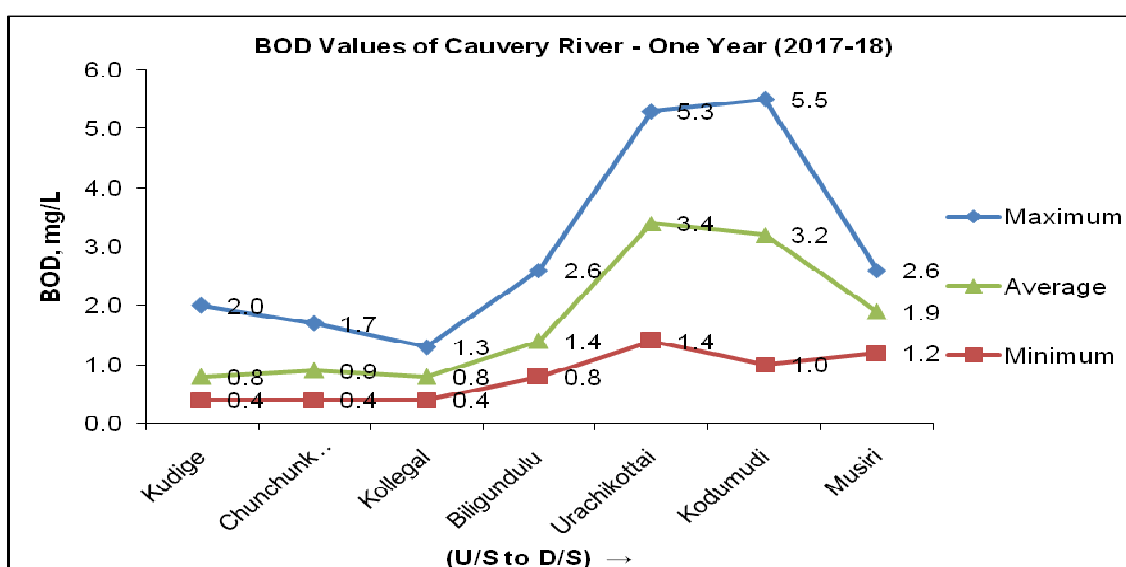


Figure - 4.3

4.1.5 DO, mg/L

Dissolved Oxygen (DO) values for the period considered is given in Table - 6 and their graphical representation is given in Figure - 5.1, Figure - 5.2 & Figure - 5.3.

Table - 6

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Kudige	8.4	7.0	7.0	5.5	5.3	4.9	6.9	6.2	6.1
Chunchunkatte	NA	NA	7.4	NA	NA	5.5	NA	NA	6.8
Kollegal	8.4	7.6	7.0	5.1	4.8	3.6	6.5	6.0	4.9
Biligundulu	8.3	7.5	7.2	5.5	5.1	5.4	7.0	6.4	6.4
Urachikottai	8.0	8.1	9.9	6.5	6.6	5.9	7.2	7.5	7.0
Kodumudi	7.0	6.7	7.0	6.1	5.9	6.2	6.6	6.4	6.6
Musiri	7.6	7.3	8.7	6.4	6.4	5.8	7.0	6.9	6.8

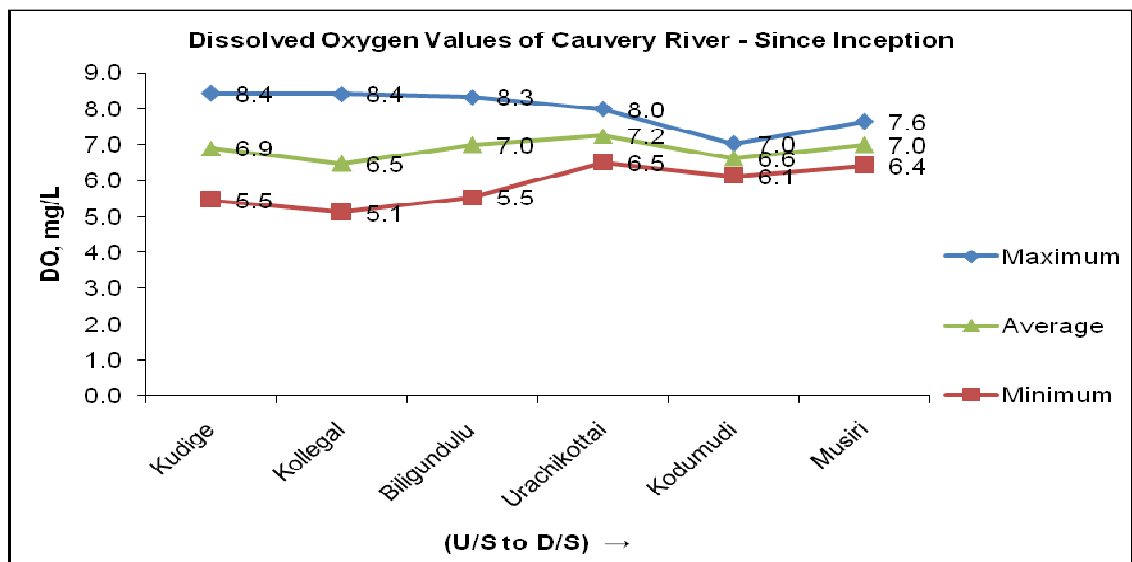


Figure - 5.1

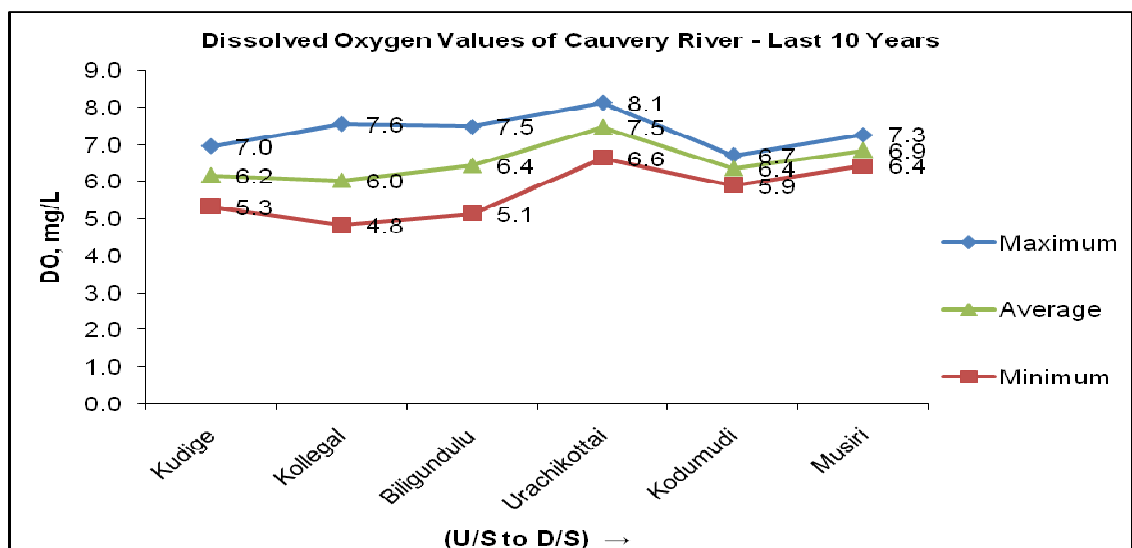


Figure - 5.2

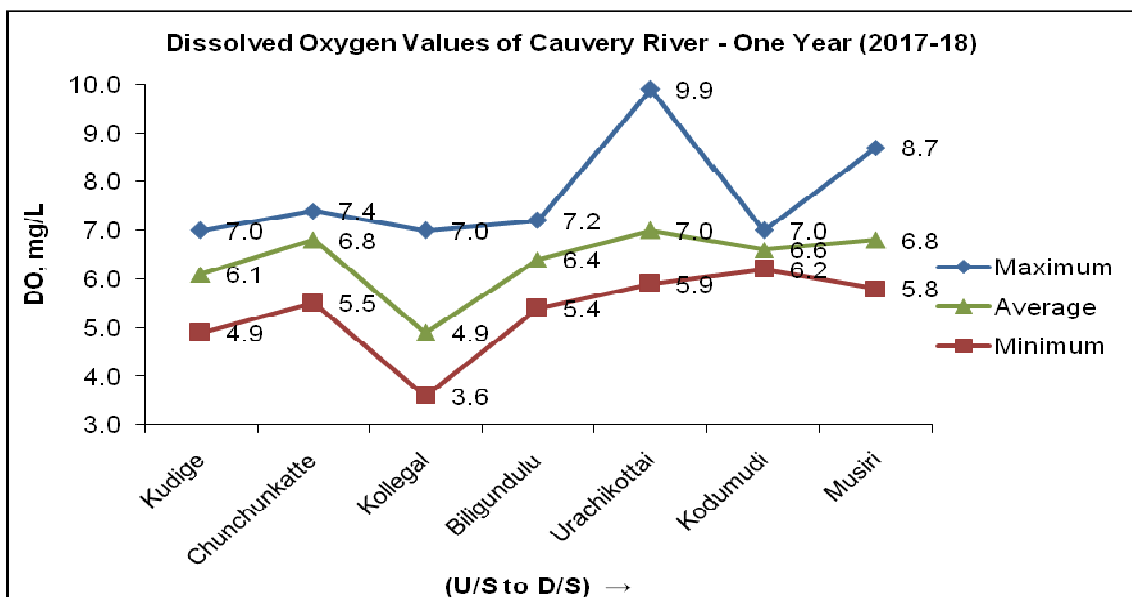


Figure - 5.3

5.1 General Remarks / Conclusion about Water Quality Trend:

Trends of the river Cauvery with its tributaries are as follows:

The water quality of river Cauvery is almost same and good in nature. The ionic concentration is gradually increasing from upstream to downstream. From Origin to site Biligundulu is very good. The water quality of river Cauvery is little deteriorating due to direct human activities which can be seen from the above graphs. At sites Urachikottai and Kodumudi, concentrations of all pollution indicating parameters are increasing. But towards downstream at site Musiri, quality of water is comparatively improving due to self purification of river in its own course or as the quantum of water are increases in river Cauvery.

4.2 Hemavathi River:

The water quality scenario is being presented in pictorial graph among the sites **Sakleshpur, M. H. Halli** and **Akkihebbal** on river Hemavathi under Cauvery Basin. The data details considered for water quality trend study from upstream to downstream of Hemavathi River is given below.

4.2.1 Electrical Conductivity (EC) ($\mu\text{mhos/cm}$)

EC values for the period considered is given in Table - 7 and their graphical representation is given in Figure - 6.1, Figure - 6.2 & Figure - 6.3.

Table – 7

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Sakleshpur	172	118	95	86	51	66	128	85	78
M. H. Halli	295	200	113	113	117	80	173	154	100
Akkihebbal	523	404	421	180	164	129	351	309	351

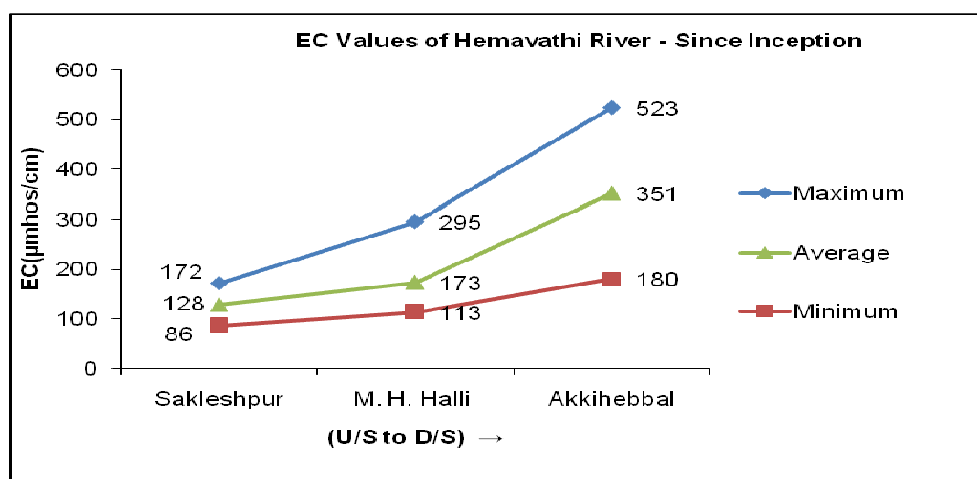


Figure - 6.1

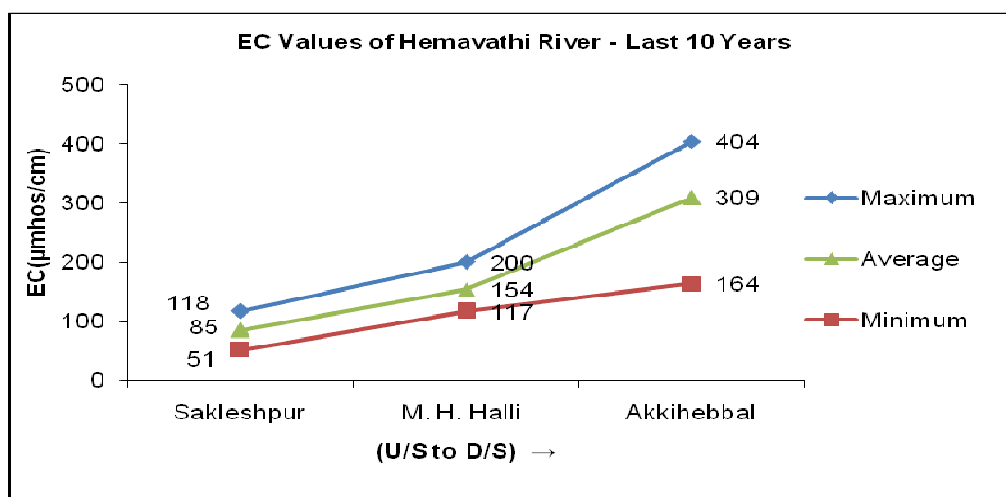


Figure - 6.2

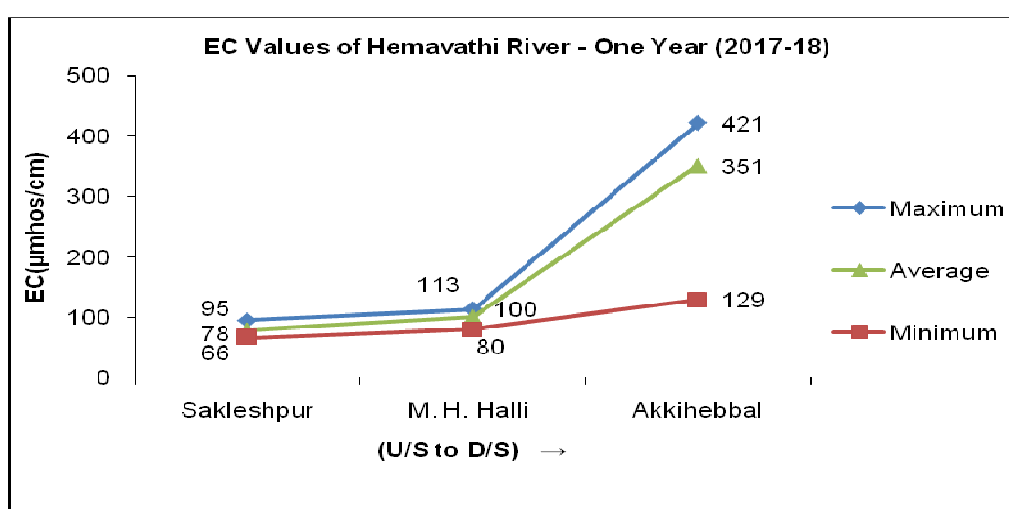


Figure - 6.3

4.2.2 pH

pH values for the period considered is given in Table - 8 and their graphical representation is given in Figure - 7.1, Figure - 7.2 & Figure - 7.3.

Table - 8

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Sakleshpur	7.6	7.6	7.4	6.7	6.7	6.7	7.2	7.1	7.2
M. H. Halli	8.0	7.6	7.5	7.1	7.0	7.1	7.6	7.3	7.2
Akkihebbal	8.2	8.2	7.9	7.3	7.3	7.5	7.8	7.8	7.7

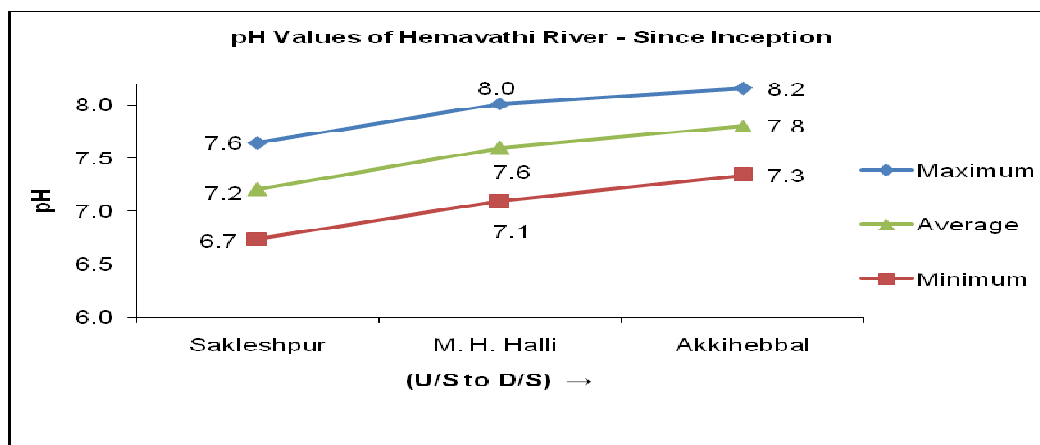


Figure - 7.1

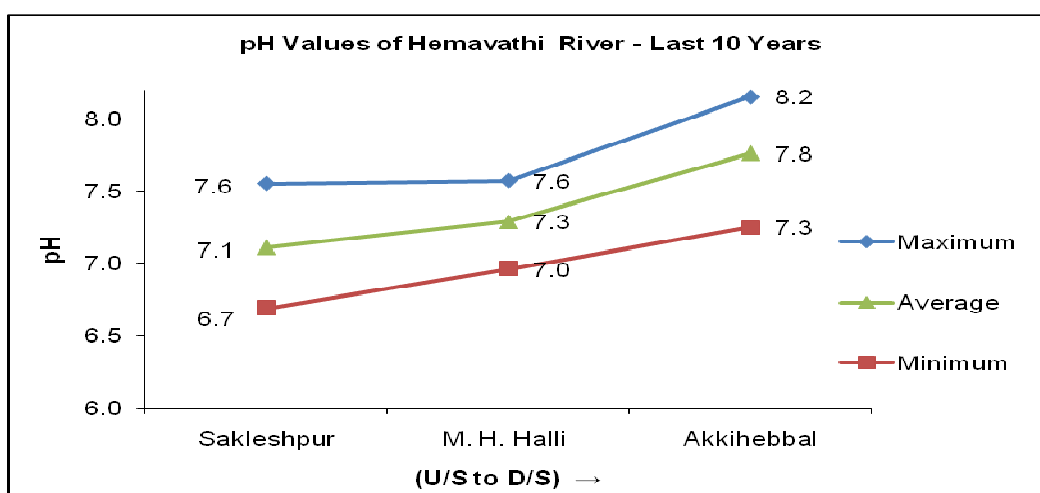


Figure - 7.2

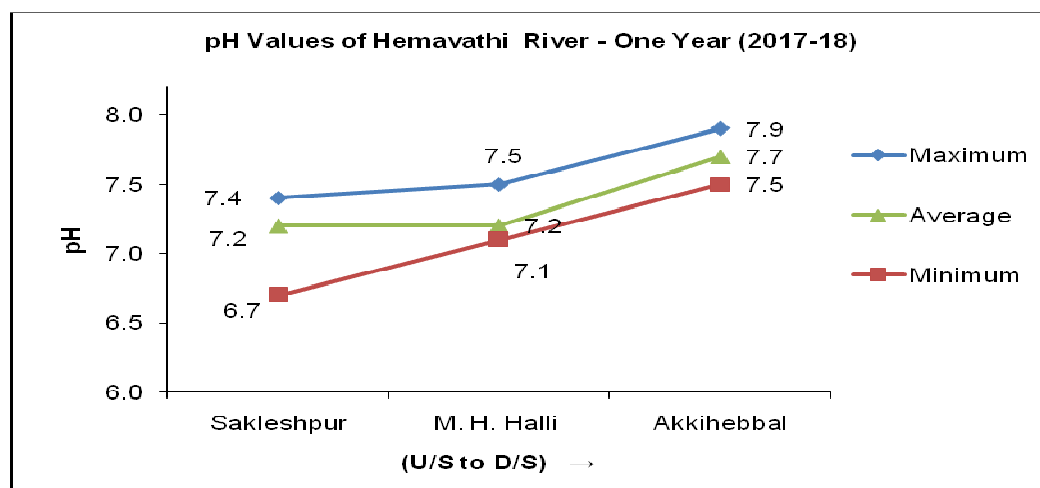


Figure - 7.3

4.2.3 Fluoride, mg/L

Fluoride values for the period considered is given in Table - 9 and their graphical representation is given in Figure - 8.1, Figure - 8.2 & Figure - 8.3.

Table – 9

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Sakleshpur	0.74	0.40	0.08	0.15	0.03		0.32	0.12	0.04
M. H. Halli	0.99	0.97	0.11	0.34	0.75	0.06	0.51	0.82	0.08
Akkihebbal	0.94	0.67	0.38	0.10	0.08	0.08	0.30	0.23	0.22

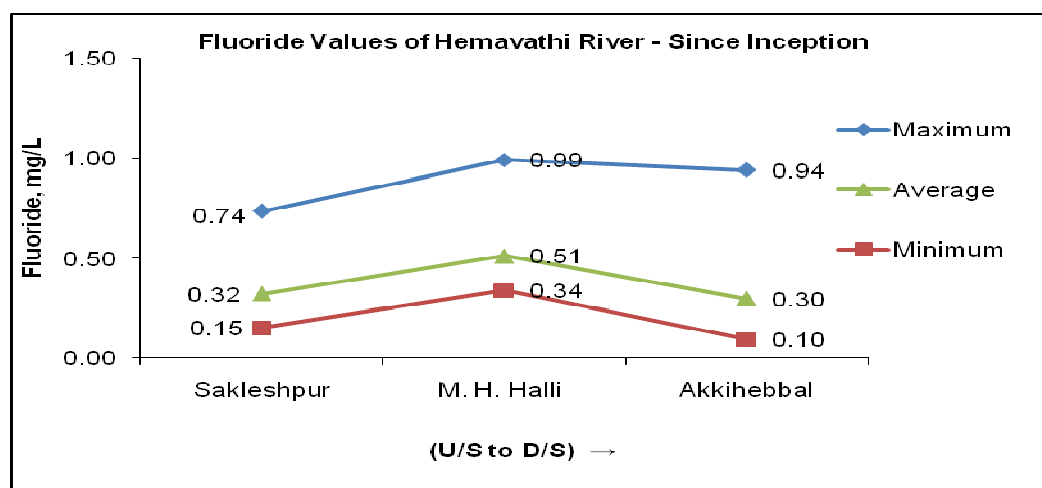


Figure - 8.1

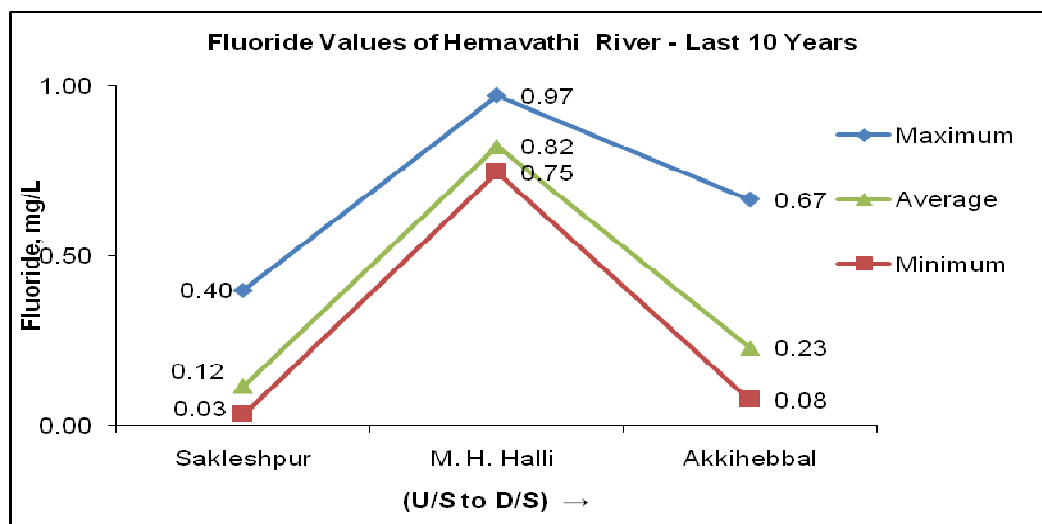


Figure - 8.2

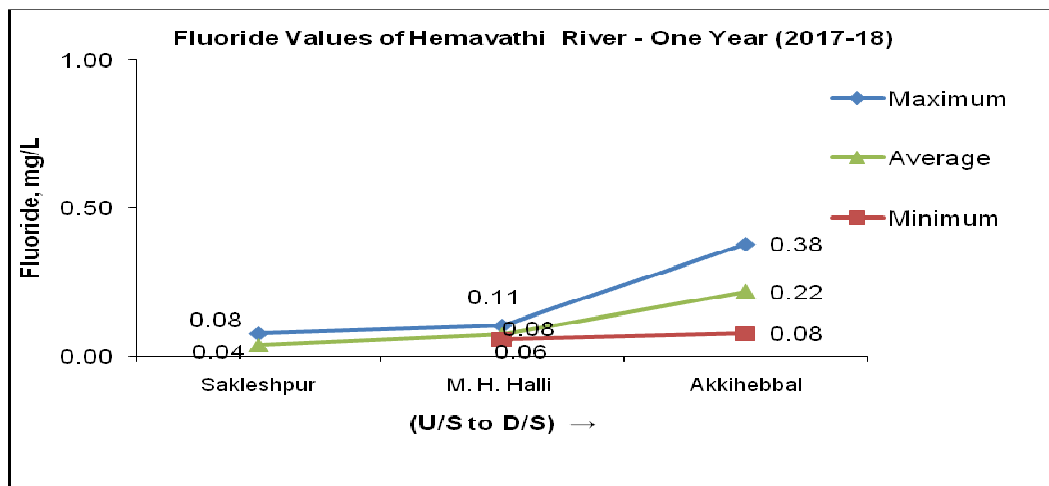


Figure - 8.3

4.2.4 BOD, mg/L

Biochemical Oxygen Demand (BOD) values for the period considered is given in Table - 10 and their graphical representation is given in Figure - 9.1, Figure - 9.2 & Figure - 9.3.

Table - 10

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Sakleshpur	2.6	2.4	4.0	0.5	0.6	0.2	1.3	1.3	1.3
M. H. Halli	1.8	1.4	0.8	0.5	0.6	0.2	1.0	1.0	0.5
Akkihebbal	3.0	2.8	4.6	0.8	0.9	0.4	1.5	1.6	1.3

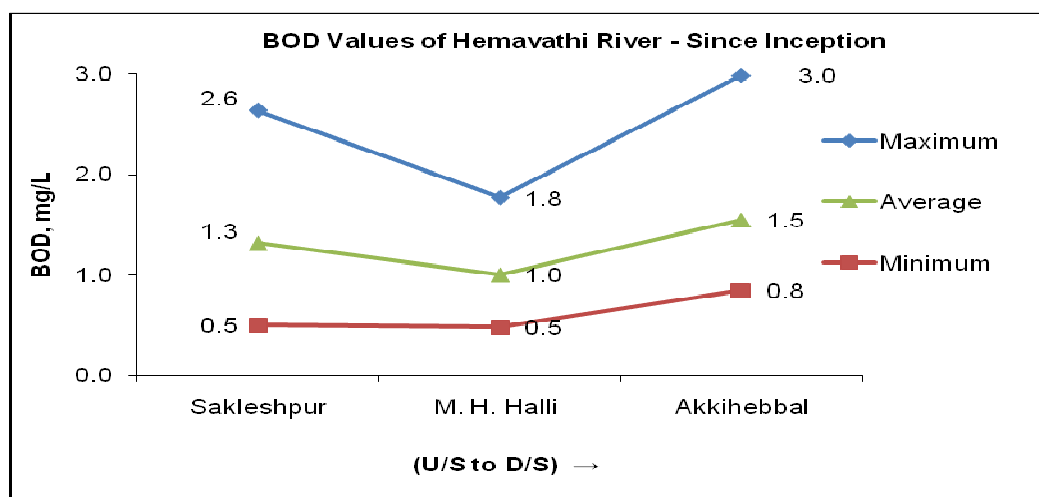


Figure - 9.1

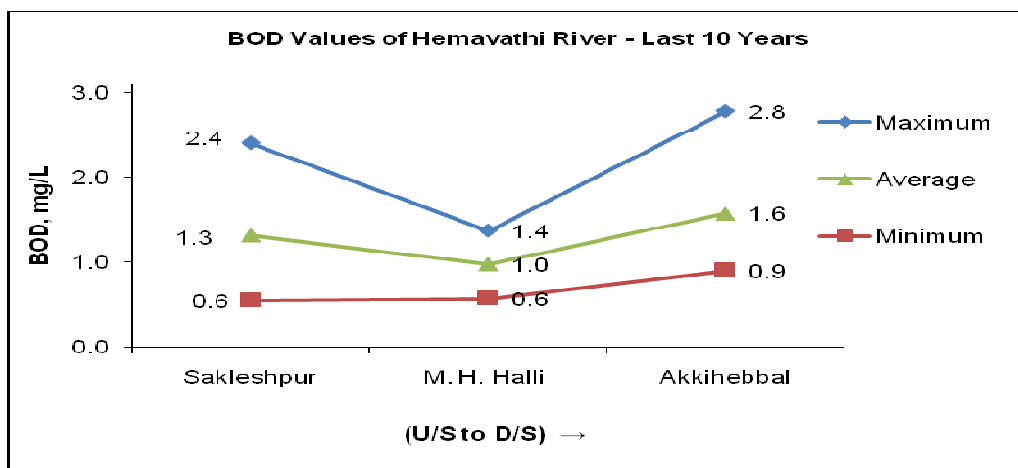


Figure - 9.2

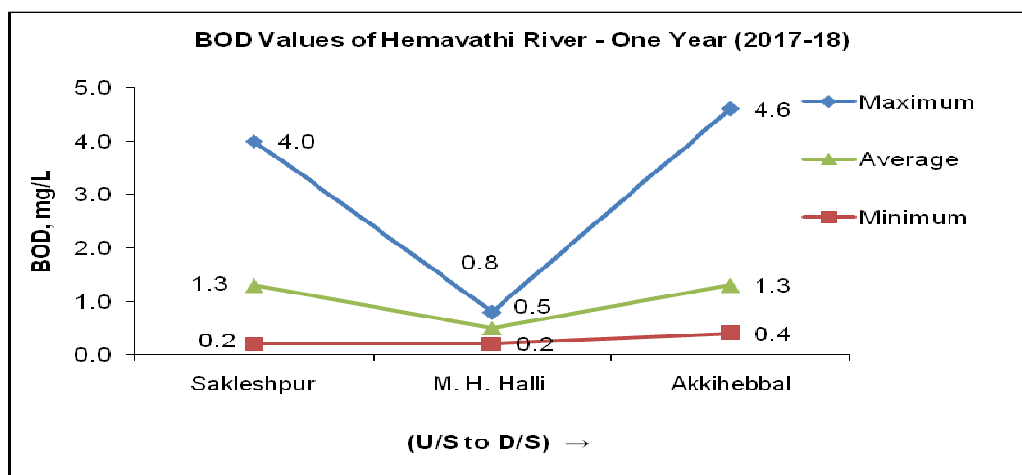


Figure - 9.3

4.2.5 DO, mg/L

Dissolved Oxygen (DO) values for the period considered is given in Table - 11 and their graphical representation is given in Figure - 10.1, Figure - 10.2 & Figure - 10.3.

Table - 11

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Sakleshpur	7.4	7.4	7.4	4.7	4.9	3.0	6.2	6.2	6.2
M. H. Halli	7.5	6.5	6.2	5.4	4.5	5.0	6.6	5.6	5.6
Akkihebbal	7.2	7.3	6.2	4.1	4.2	3.0	5.8	6.0	5.0

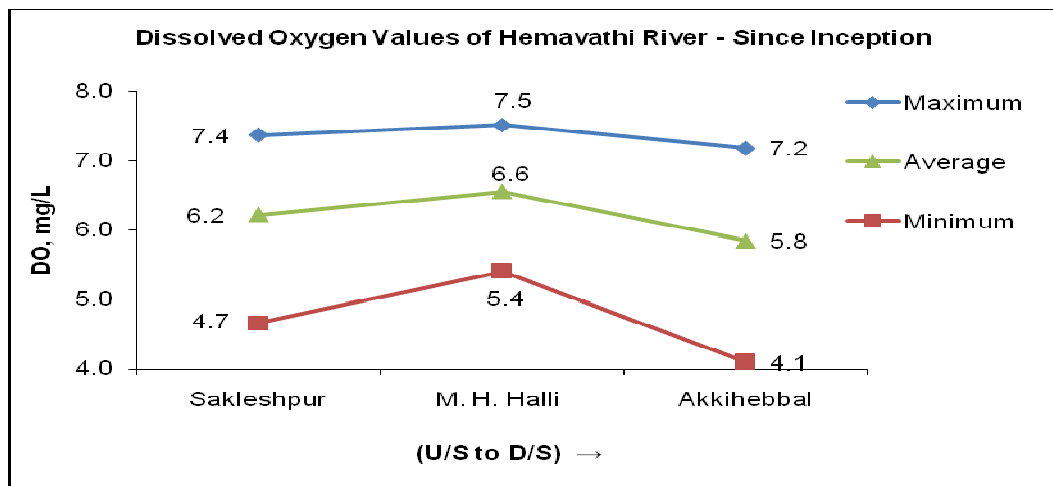


Figure - 10.1

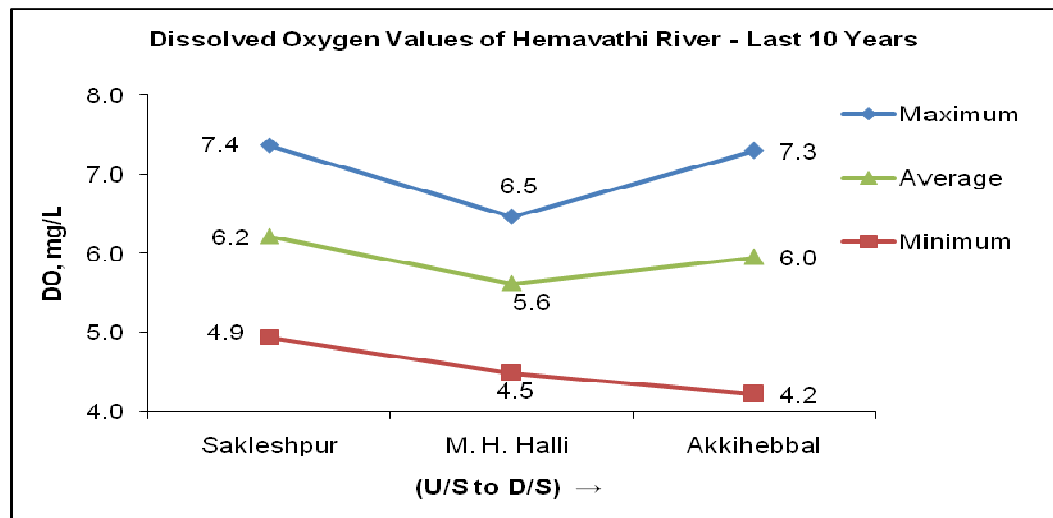


Figure - 10.2

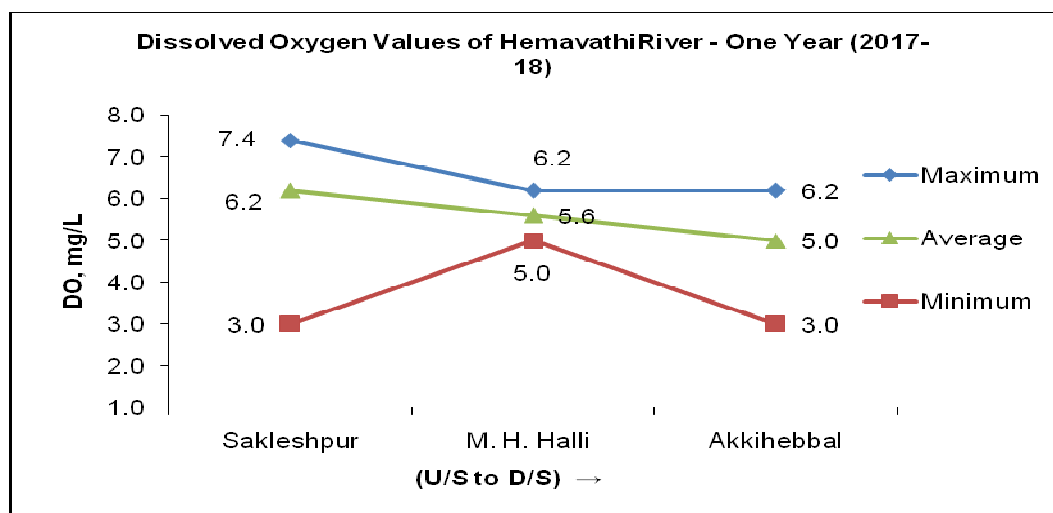


Figure - 10.3

5.2 General Remarks / Conclusion about Water Quality Trend:

Trends of the river Hemavathi is as follows:

The water quality of river Hemavathi is almost same and good in nature. The ionic concentration is gradually increasing from upstream to downstream. From Origin to site M. H. Halli is very good. The water quality of river Hemavathi is little deteriorating due to direct human activities which can be seen from the above graphs. At site Akkihebbal, concentrations of all pollution indicating parameters are increasing.

4.3 Kabini River:

The water quality scenario is being presented in pictorial graph among the sites **Muthankera** and **T. Narasipur** on river Kabini under Cauvery Basin. The data details considered for water quality trend study from upstream to downstream of Kabini River is given below.

4.3.1 Electrical Conductivity (EC) ($\mu\text{mhos/cm}$)

EC values for the period considered is given in Table - 12 and their graphical representation is given in Figure - 11.1, Figure - 11.2 & Figure - 11.3.

Table – 12

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Muthankera	134	115	116	50	43	47	120	79	72
T. Narasipur	495	505	398	155	123	96	322	313	276

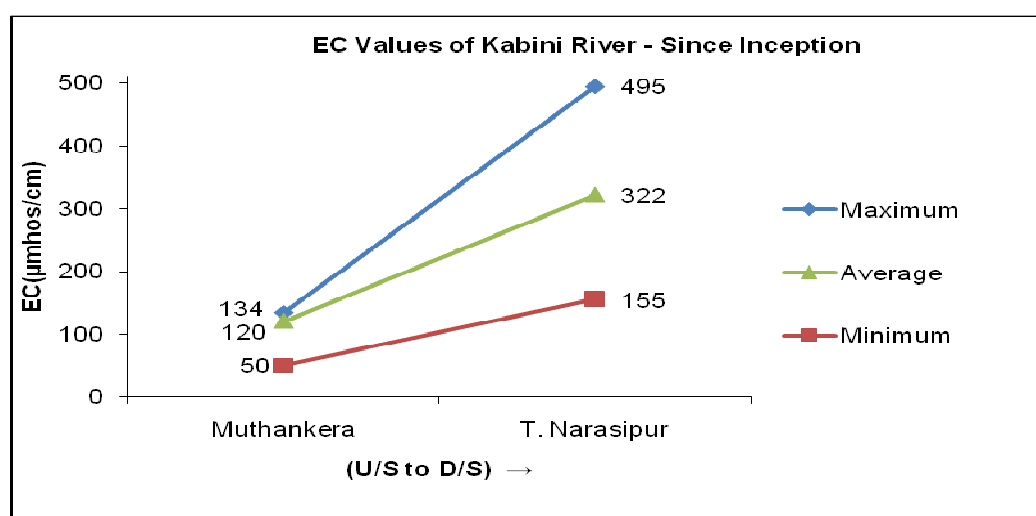


Figure - 11.1

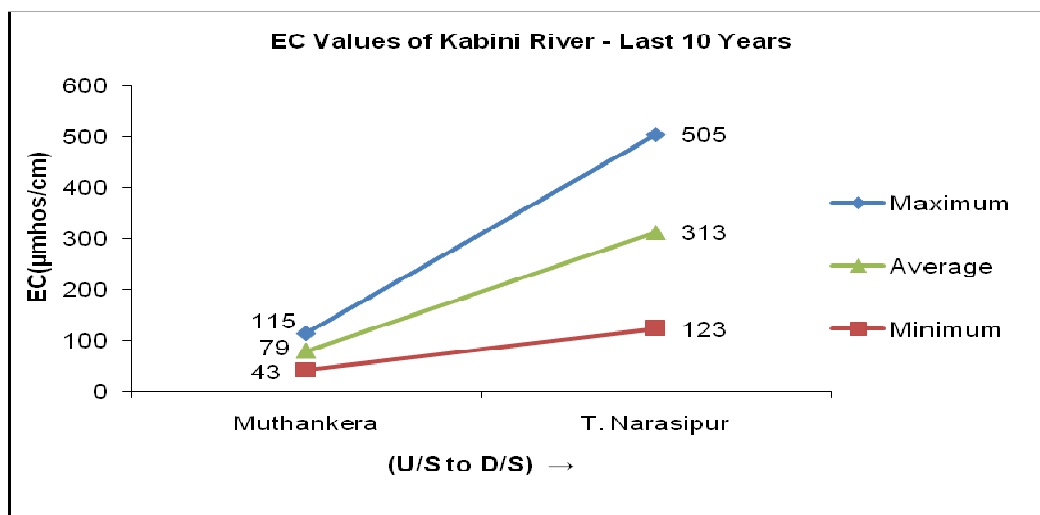


Figure - 11.2

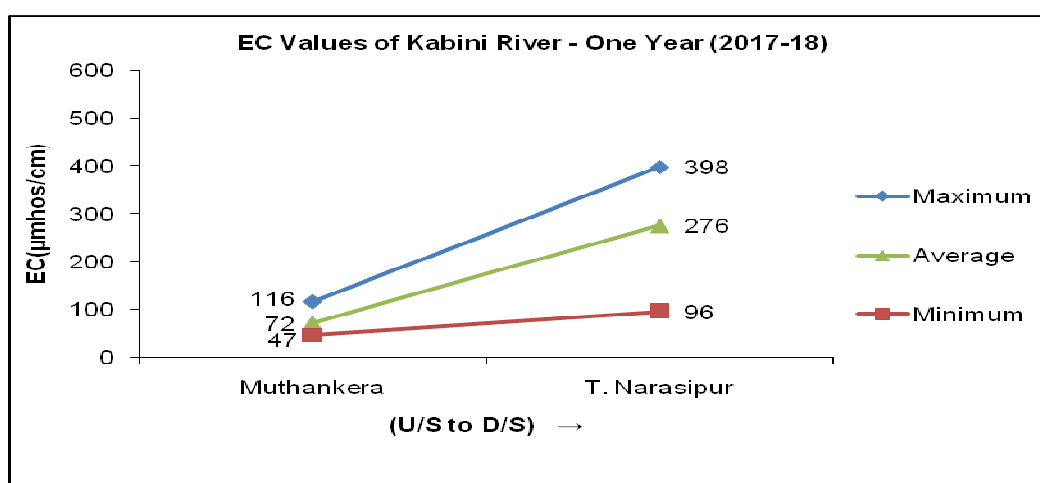


Figure - 11.3

4.3.2 pH

pH values for the period considered is given in Table - 13 and their graphical representation is given in Figure - 12.1, Figure - 12.2 & Figure - 12.3.

Table - 13

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Muthankera	7.7	7.7	7.6	6.5	6.4	6.8	7.1	7.0	7.2
T. Narasipur	8.2	8.1	7.6	7.2	7.2	7.0	7.8	7.6	7.4

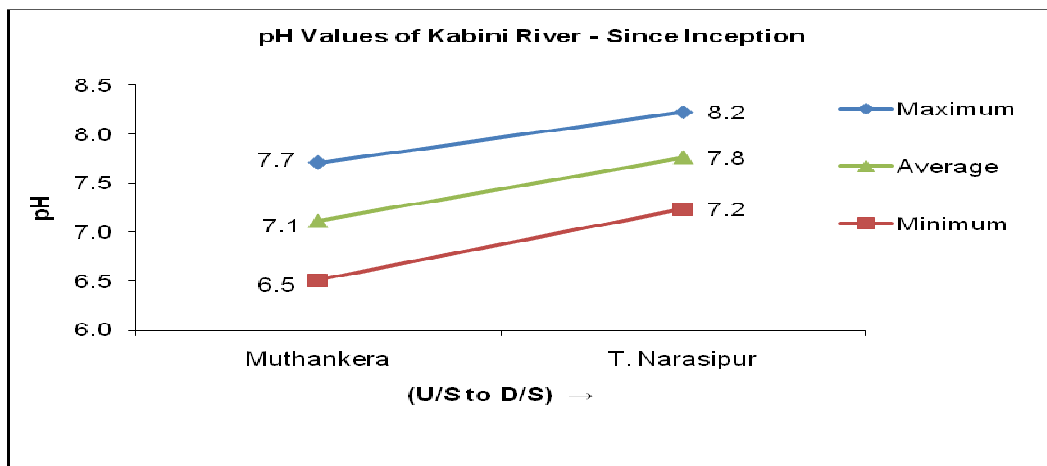


Figure - 12.1

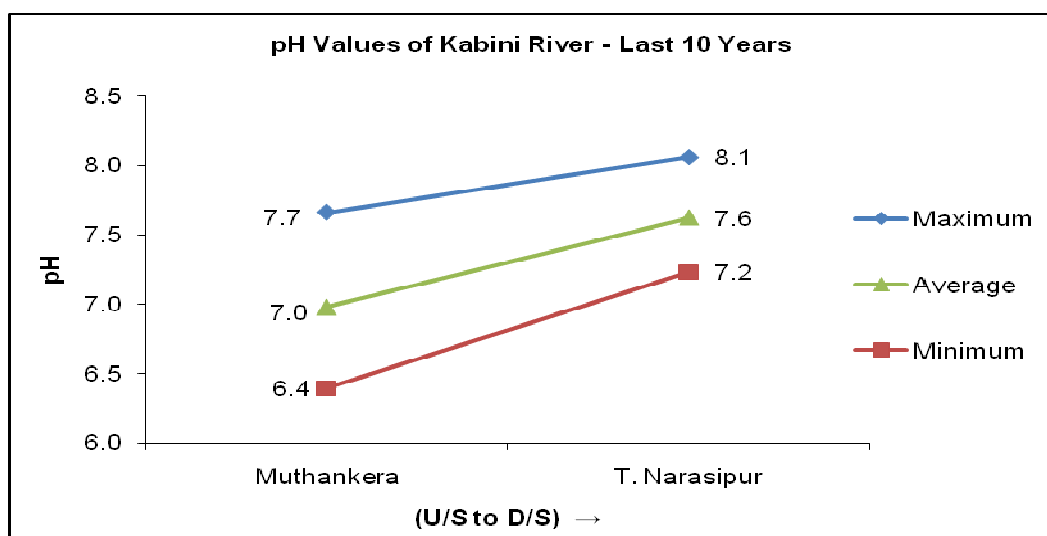


Figure - 12.2

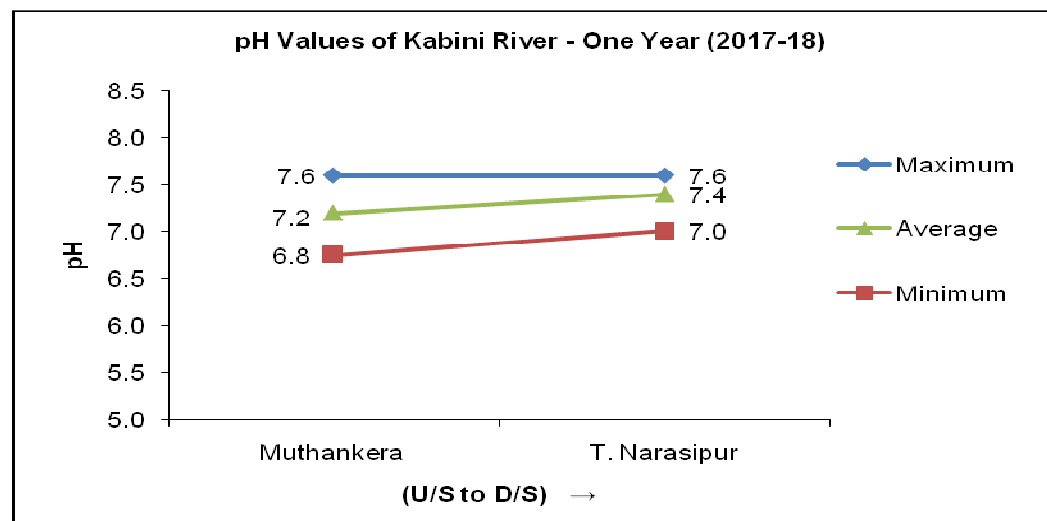


Figure - 12.3

4.3.3 Fluoride, mg/L

Fluoride values for the period considered is given in Table - 14 and their graphical representation is given in Figure - 13.1 Figure - 13.2 & Figure - 13.3.

Table – 14

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Muthankera	0.44	0.40	0.08	0.07	0.05	0.02	0.21	0.17	0.05
T. Narasipur	1.27	1.28	0.44	0.15	0.12	0.06	0.52	0.40	0.24

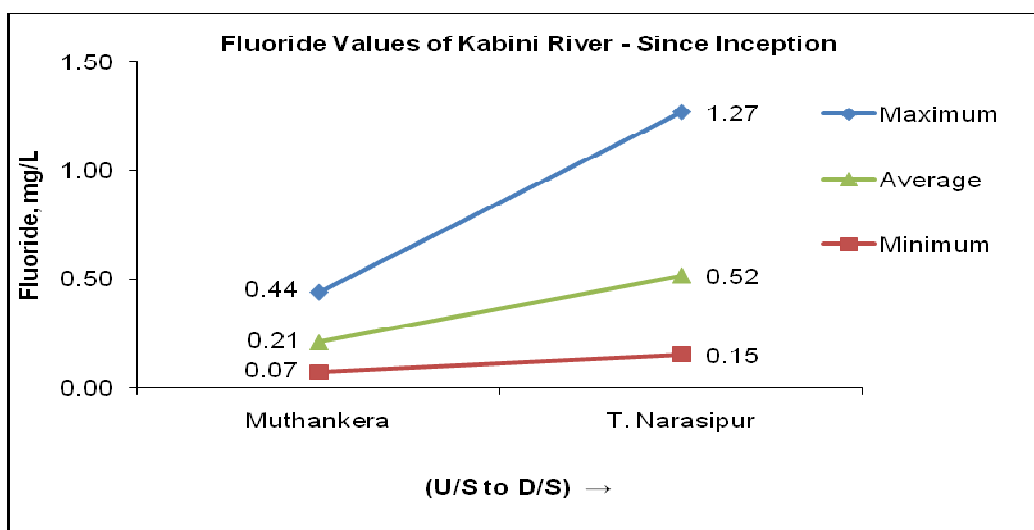


Figure - 13.1

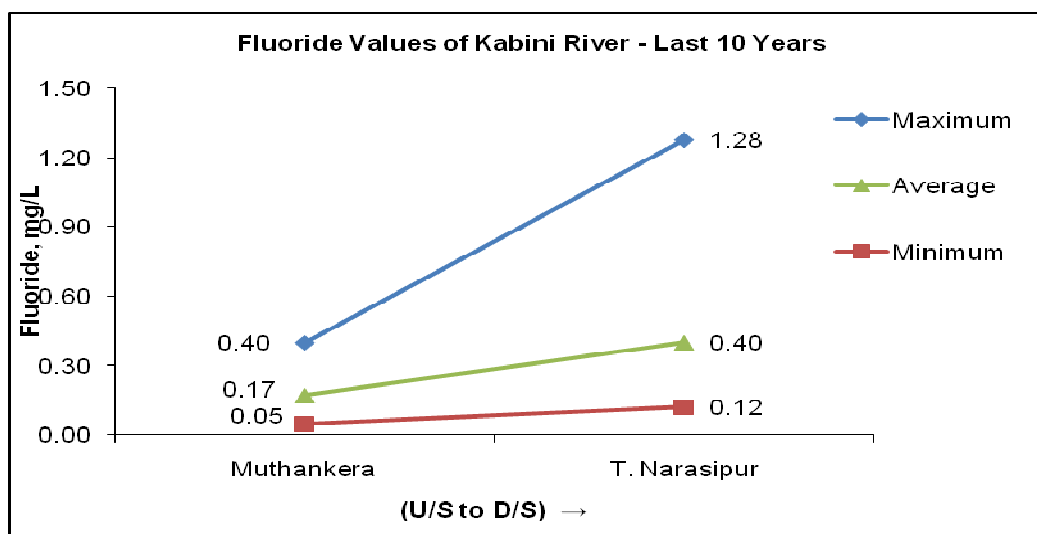


Figure - 13.2

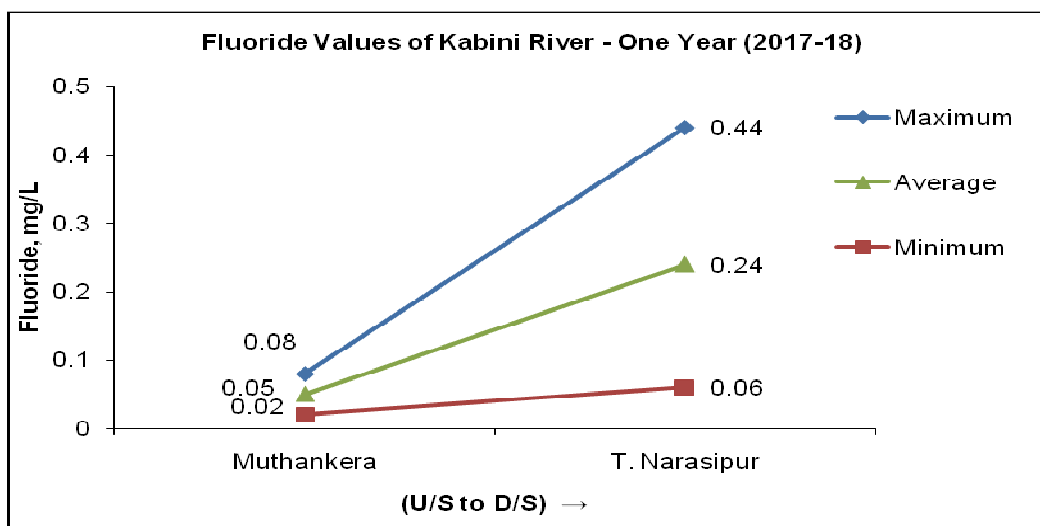


Figure - 13.3

4.3.4 BOD, mg/L

Biochemical Oxygen Demand (BOD) values for the period considered is given in Table - 15 and their graphical representation is given in Figure - 14.1, Figure - 14.2 & Figure - 14.3.

Table – 15

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Muthankera	1.47	1.50	1.20	0.35	0.31	0.60	0.84	0.86	0.90
T. Narasipur	8.20	6.81	5.60	5.00	4.80	3.00	6.58	5.78	4.10

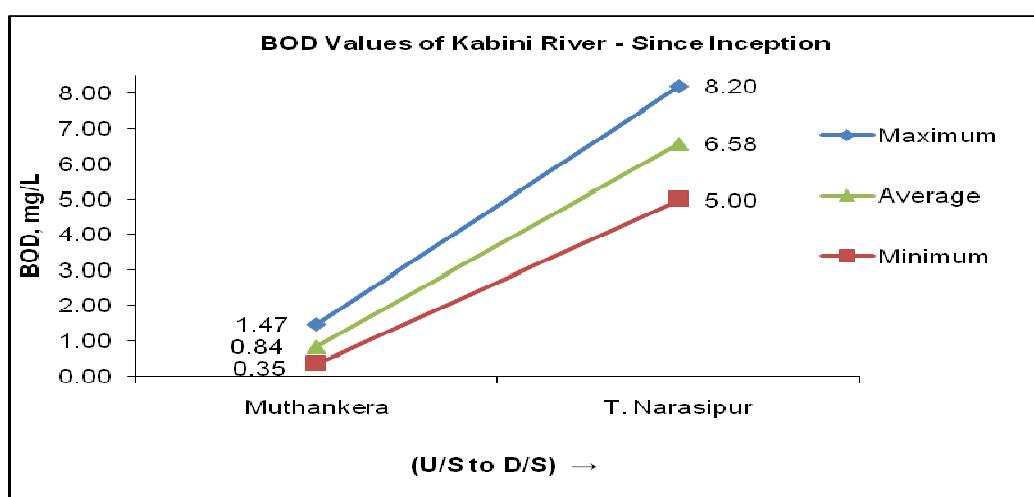


Figure - 14.1

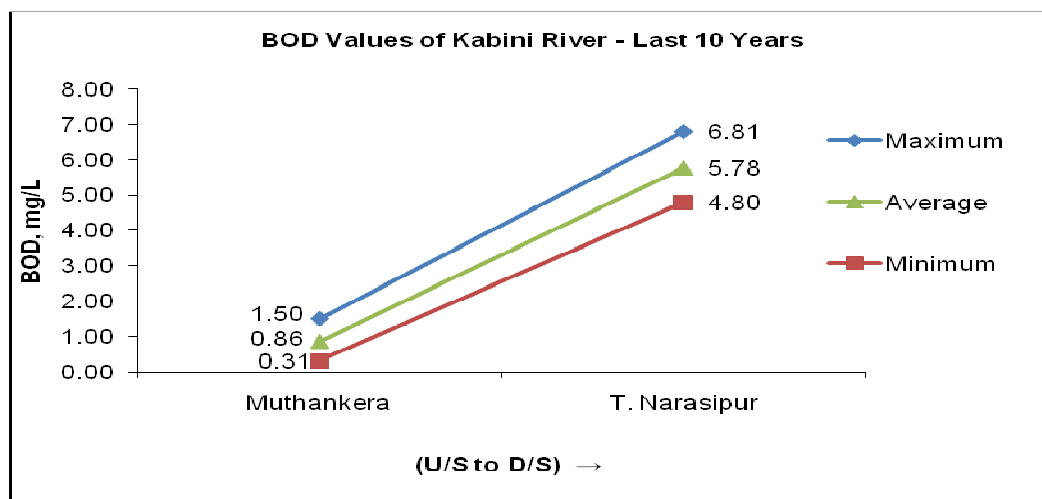


Figure - 14.2

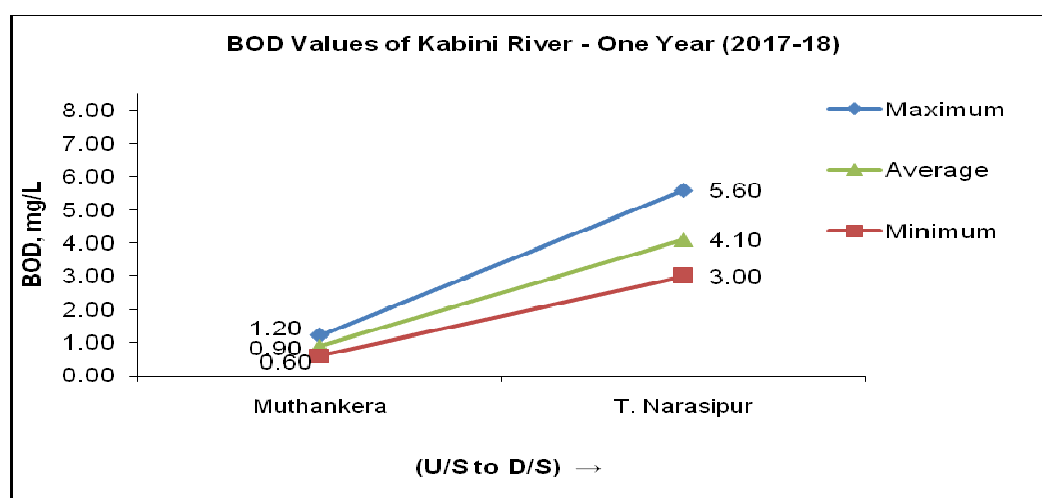


Figure - 14.3

4.3.5 DO, mg/L

Dissolved Oxygen (DO) values for the period considered is given in Table - 16 and their graphical representation is given in Figure - 15.1, Figure - 15.2 & Figure - 15.3.

Table - 16

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Muthankera	7.9	7.5	8.0	5.7	5.0	6.6	6.8	6.4	7.4
T. Narasipur	2.7	1.8	2.4	0.6	0.4	0.5	1.4	1.0	1.4

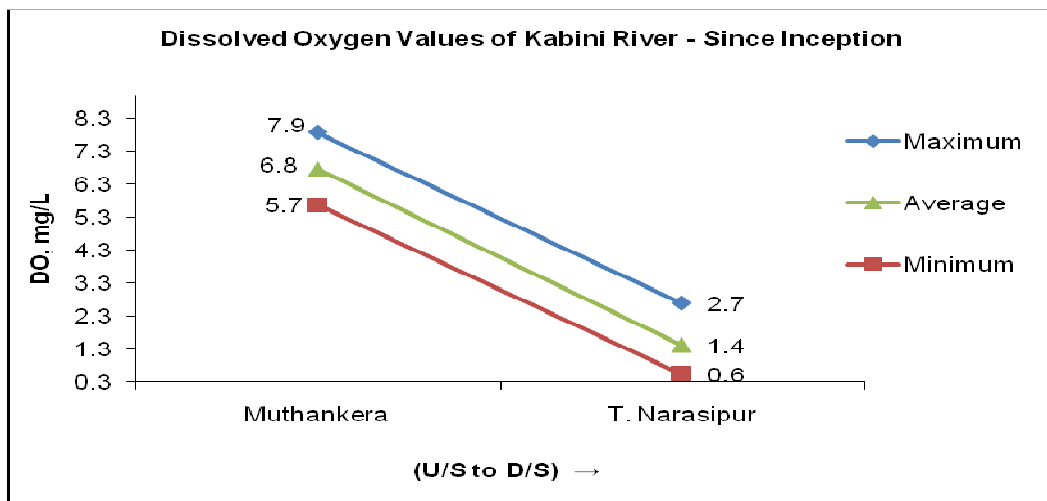


Figure - 15.1

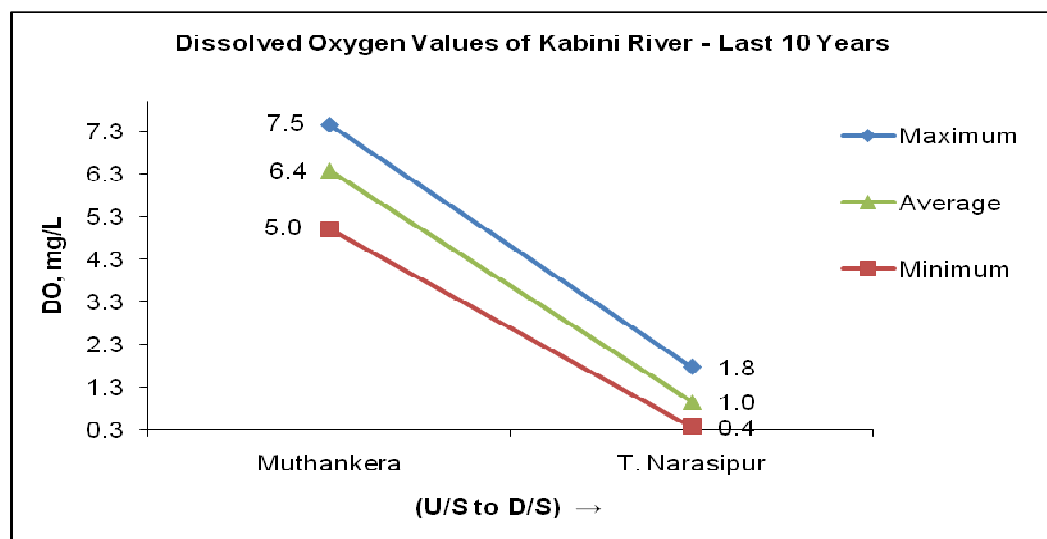


Figure - 15.2

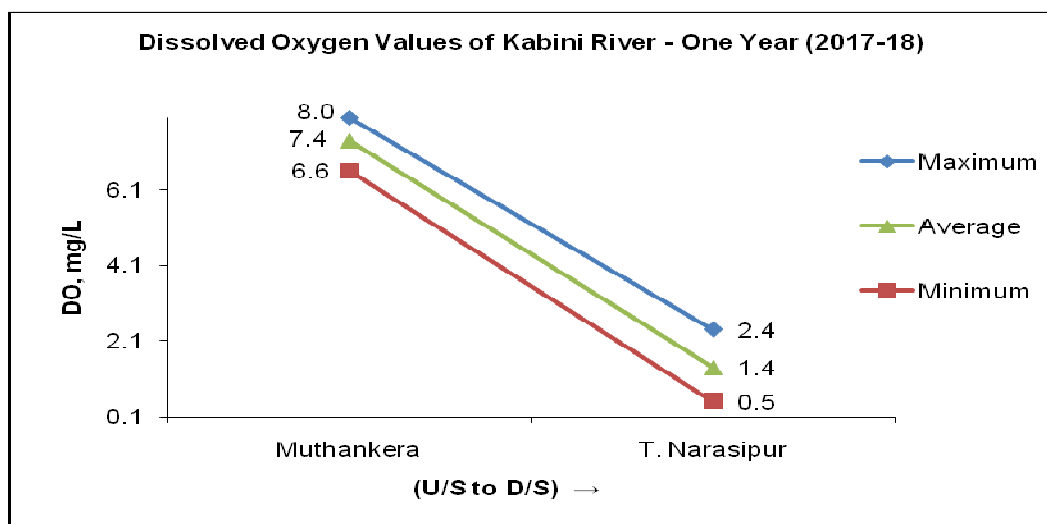


Figure - 15.3

5.3 General Remarks / Conclusion about Water Quality Trend:

Trends of the river Kabini is as follows:

The water quality of river Kabini is good in nature. The ionic concentration is gradually increasing from upstream to downstream. There is a huge difference in ionic concentrations of these two sites even though both are on the same river. The reason for the huge difference in ionic concentrations may be due to the Kabini Reservoir in between these two sites. The water quality of river Kabini is little deteriorating at sites T. Narasipur due to direct human activities which can be seen from the above graphs.

4.4 Bhavani River:

The water quality scenario is being presented in pictorial graph among the sites **Nellithurai** and **Savandapur** on river Bhavani under Cauvery Basin. The data details considered for water quality trend study from upstream to downstream of Bhavani River is given below.

4.4.1 Electrical Conductivity (EC) ($\mu\text{mhos/cm}$)

EC values for the period considered is given in Table - 17 and their graphical representation is given in Figure - 16.1 & Figure - 16.2.

Table – 17

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Nellithurai	223	187	NA	51	46	NA	105	91	NA
Savandapur	502	486	412	209	173	165	350	320	305

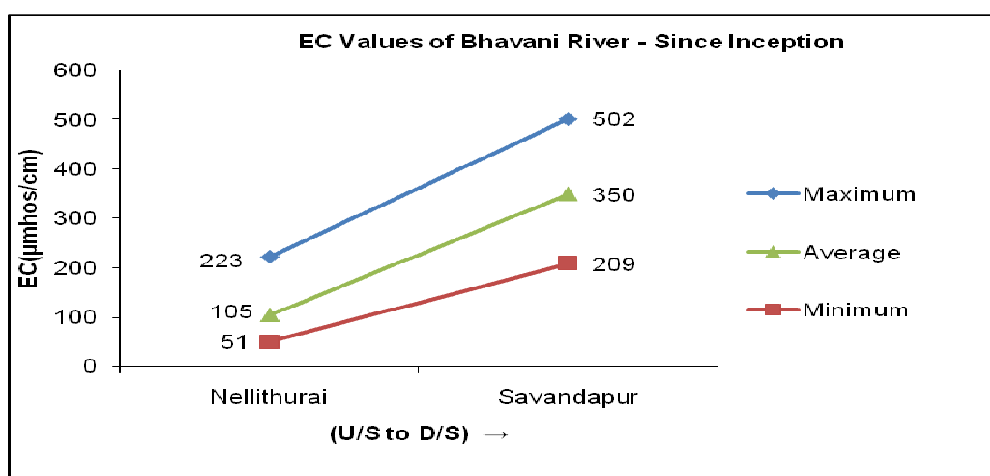


Figure - 16.1

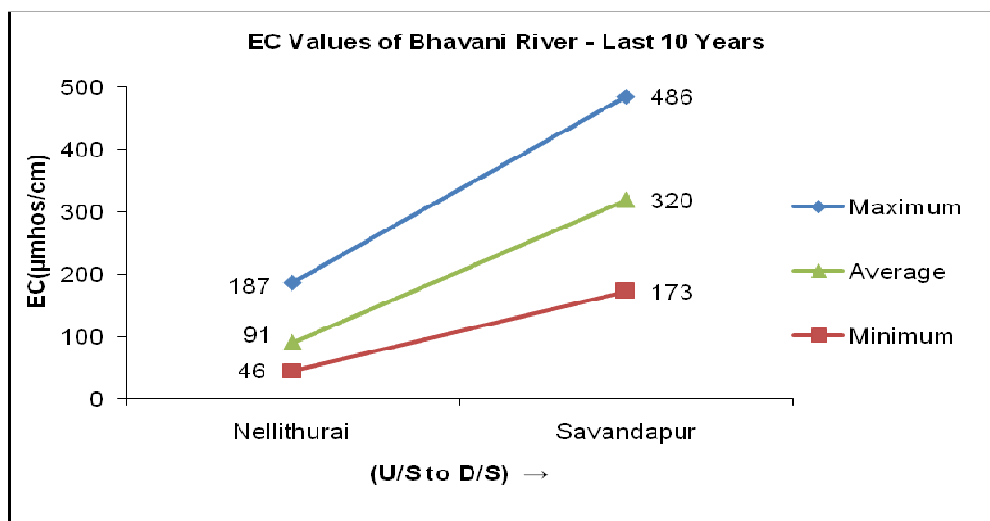


Figure - 16.2

4.4.2 pH

pH values for the period considered is given in Table - 18 and their graphical representation is given in Figure - 17.1 & Figure – 17.2.

Table – 18

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Nellithurai	8.2	8.1	NA	7.1	7.1	NA	7.6	7.7	NA
Savandapur	8.1	8.0	8.2	7.2	7.4	7.2	7.7	7.7	7.7

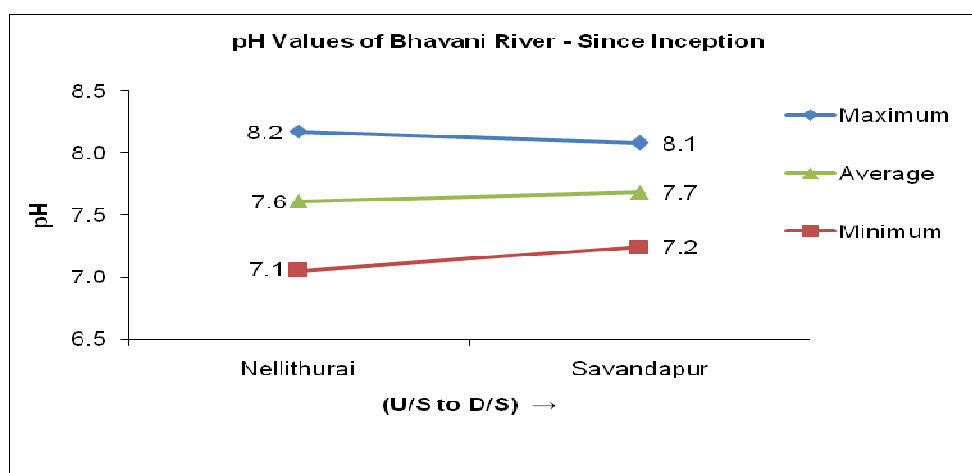


Figure - 17.1

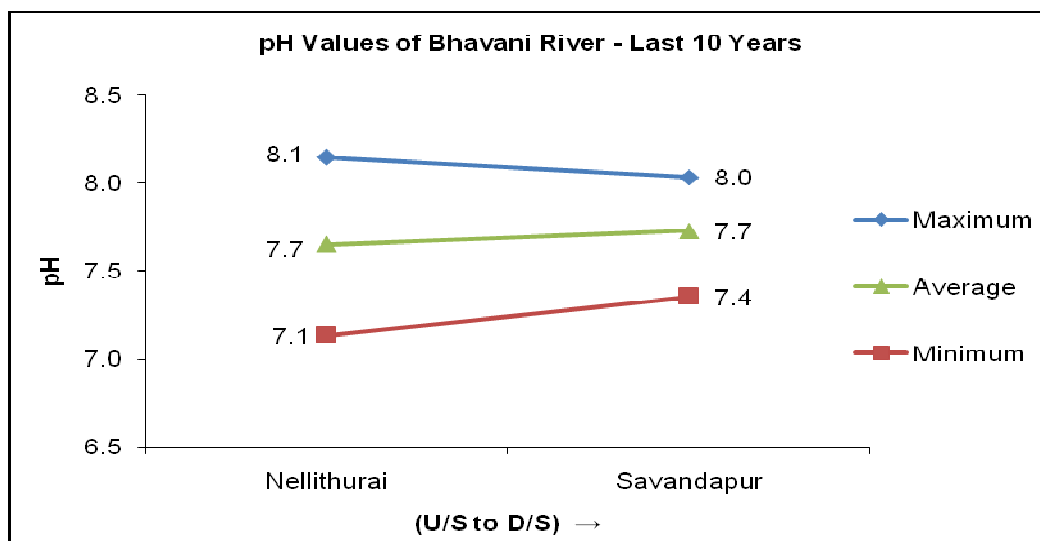


Figure - 17.2

4.4.3 Fluoride, mg/L

Fluoride values for the period considered is given in Table - 19 and their graphical representation is given in Figure - 18.1 & Figure - 18.2.

Table – 19

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Nellithurai	0.76	0.34	NA	0.06	0.05	NA	0.20	0.16	NA
Savandapur	0.94	0.55	0.37	0.14	0.14	0.11	0.33	0.30	0.23

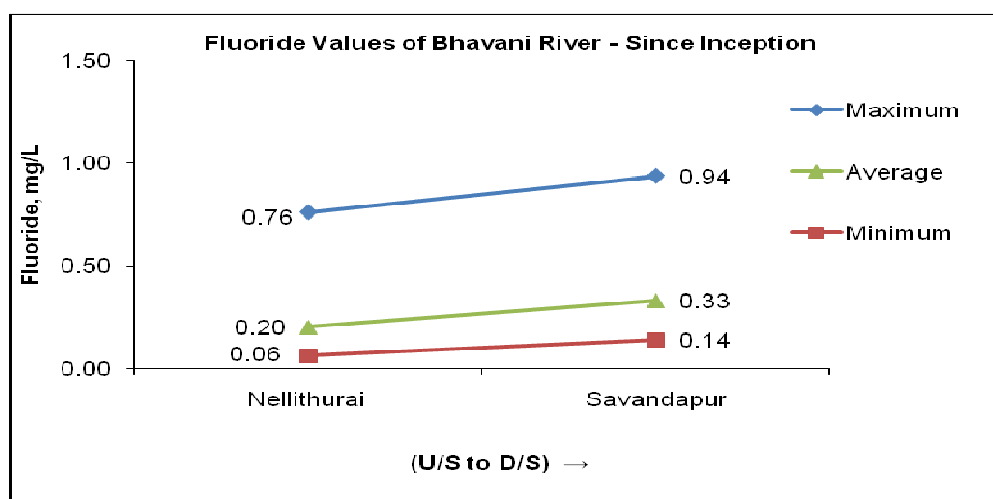


Figure - 18.1

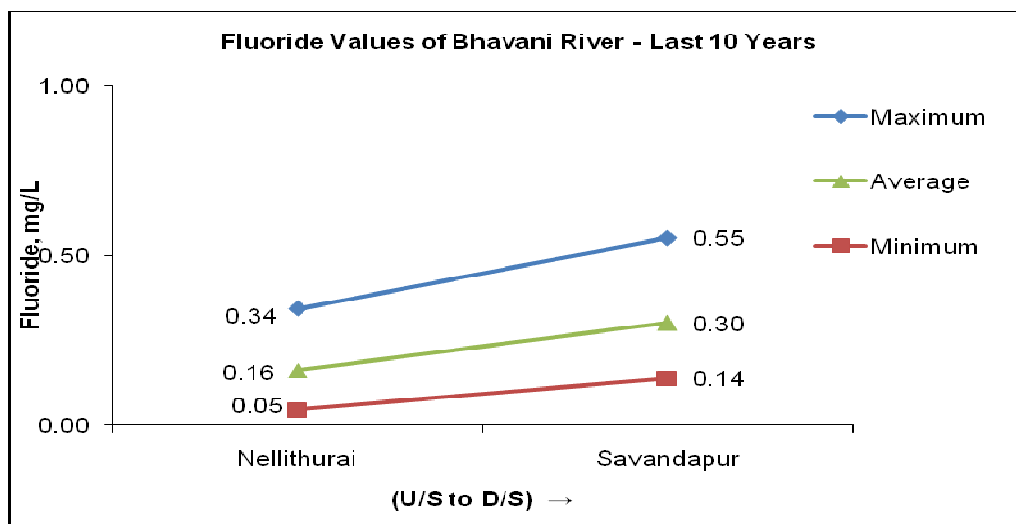


Figure - 18.2

4.4.4 BOD, mg/L

Biochemical Oxygen Demand (BOD) values for the period considered is given in Table - 20 and their graphical representation is given in Figure - 19.1 & Figure - 19.2.

Table – 20

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Nellithurai	1.6	1.6	NA	0.4	0.4	NA	0.8	0.9	NA
Savandapur	3.0	2.3	4.0	0.5	0.5	0.4	1.3	1.2	1.4

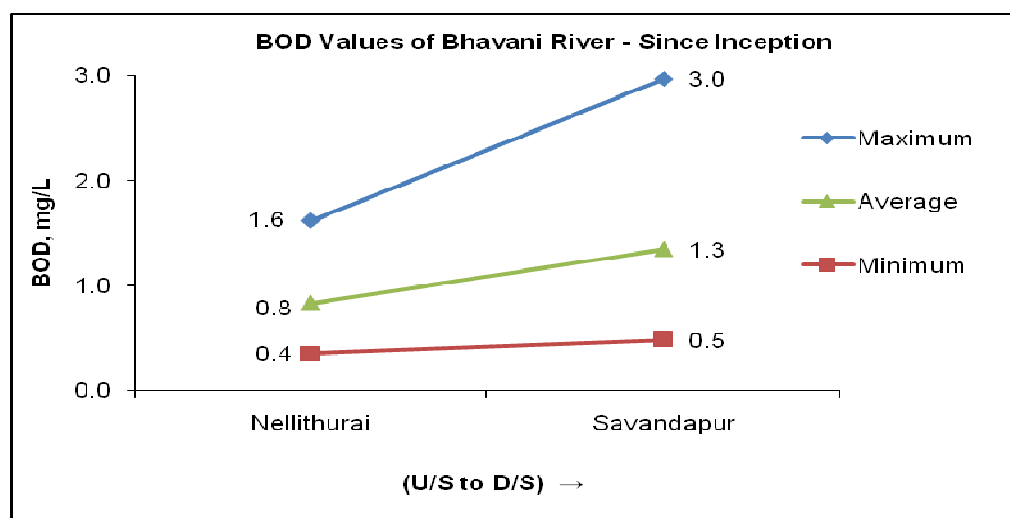


Figure - 19.1

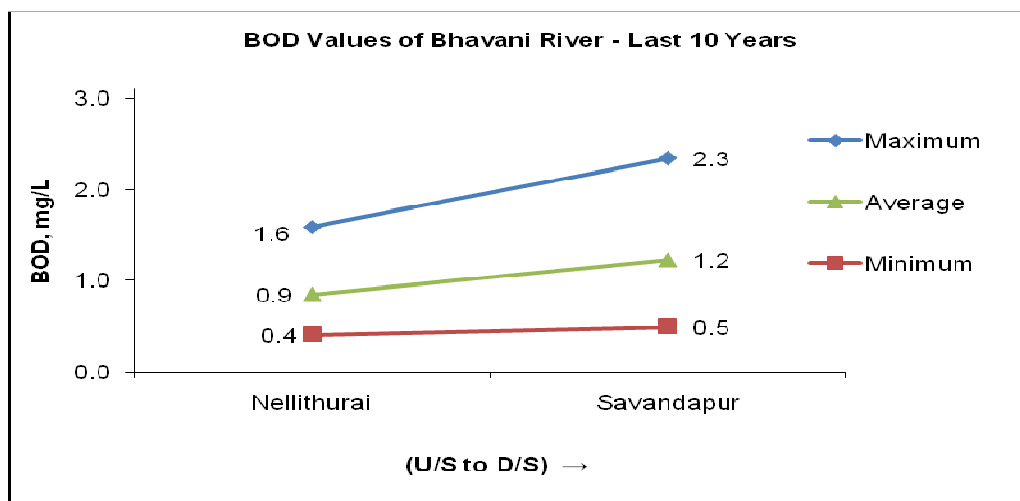


Figure - 19.2

4.4.5 DO, mg/L

Dissolved Oxygen (DO) values for the period considered is given in Table - 21 and their graphical representation is given in Figure - 20.1 & Figure - 20.2.

Table – 21

Site Name	Average of Yearly Maximum			Average of Yearly Minimum			Annual Average		
	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year	Since Inception	Last 10 Years	One Year
Nellithurai	8.3	8.3	NA	7.2	7.3	NA	7.8	7.9	NA
Savandapur	7.2	7.6	7.2	5.5	5.5	5.0	6.4	6.7	6.7

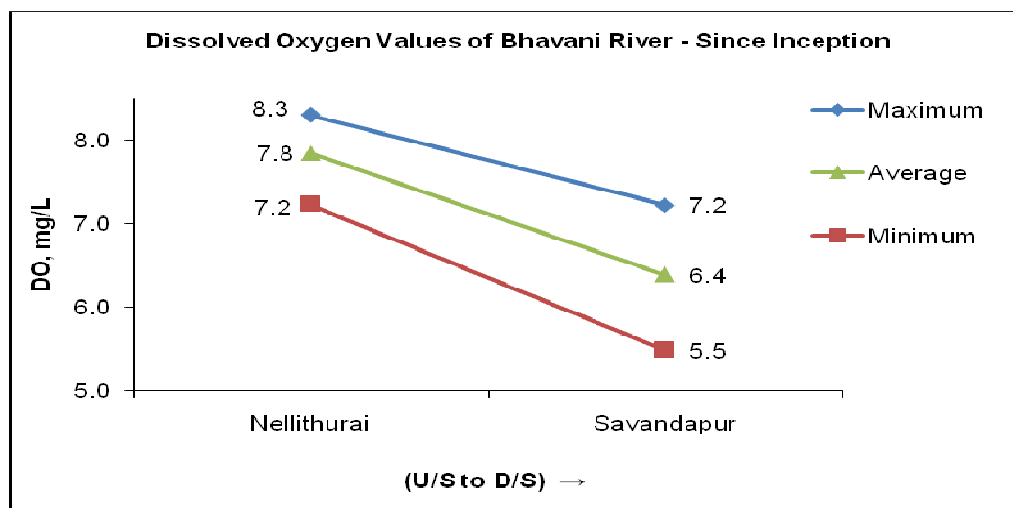


Figure - 20.1

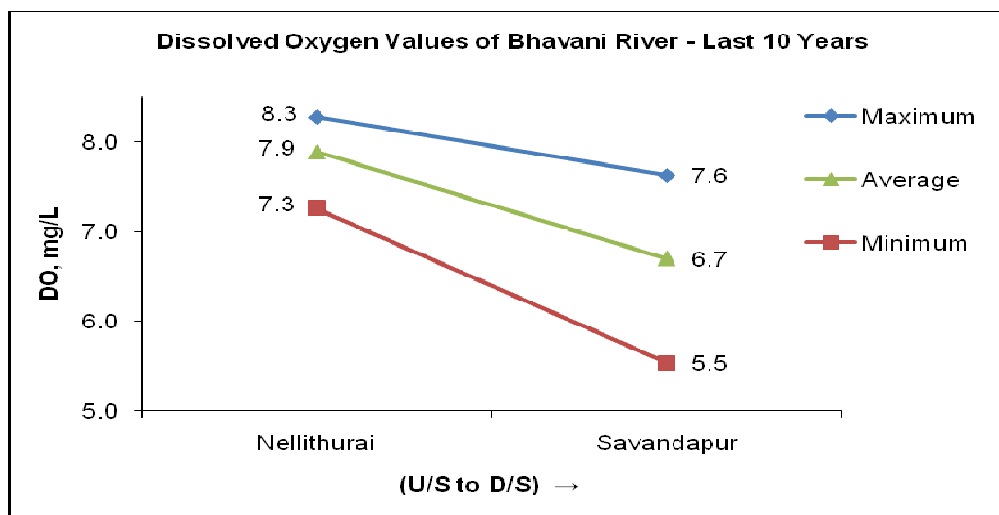
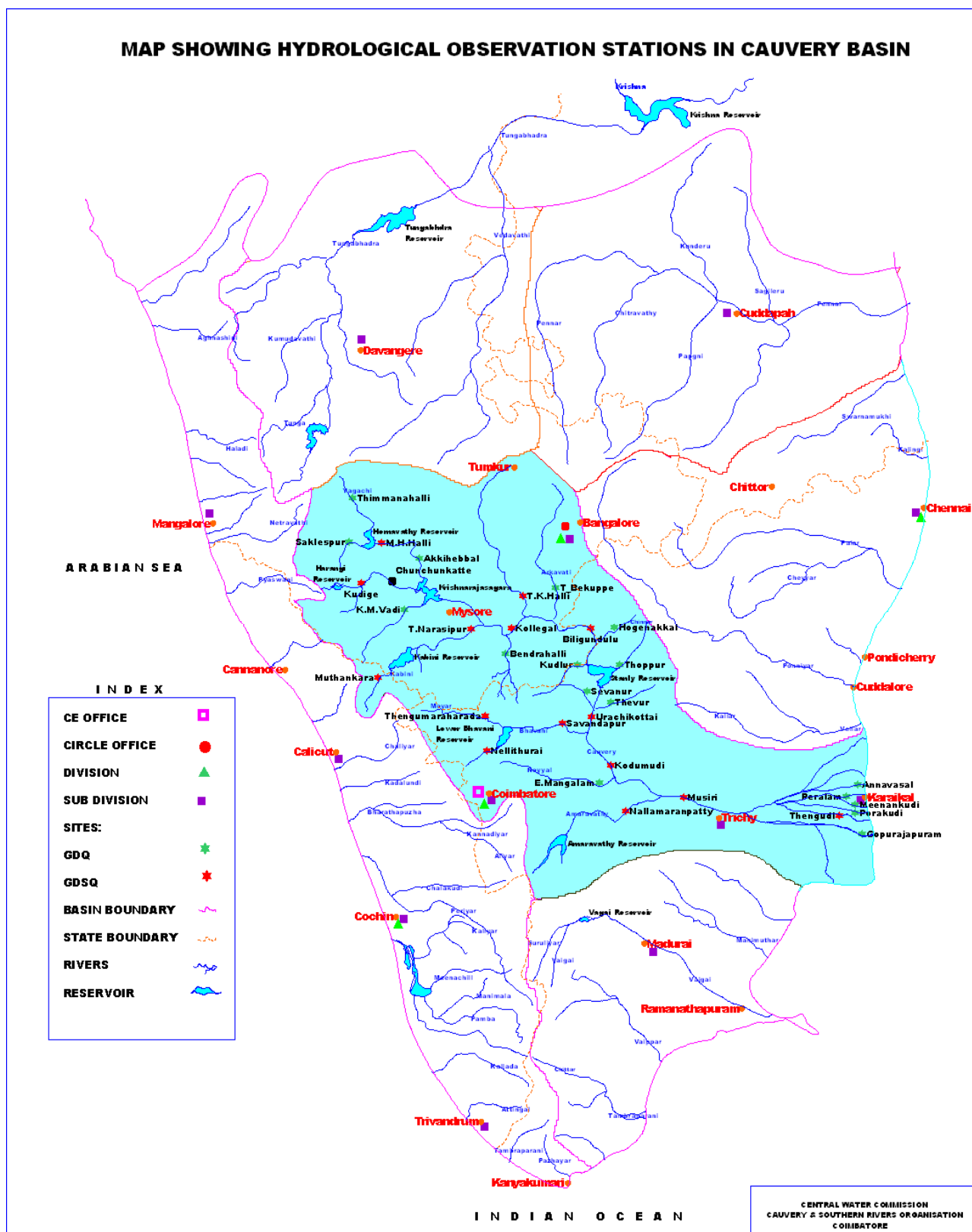


Figure - 20.2

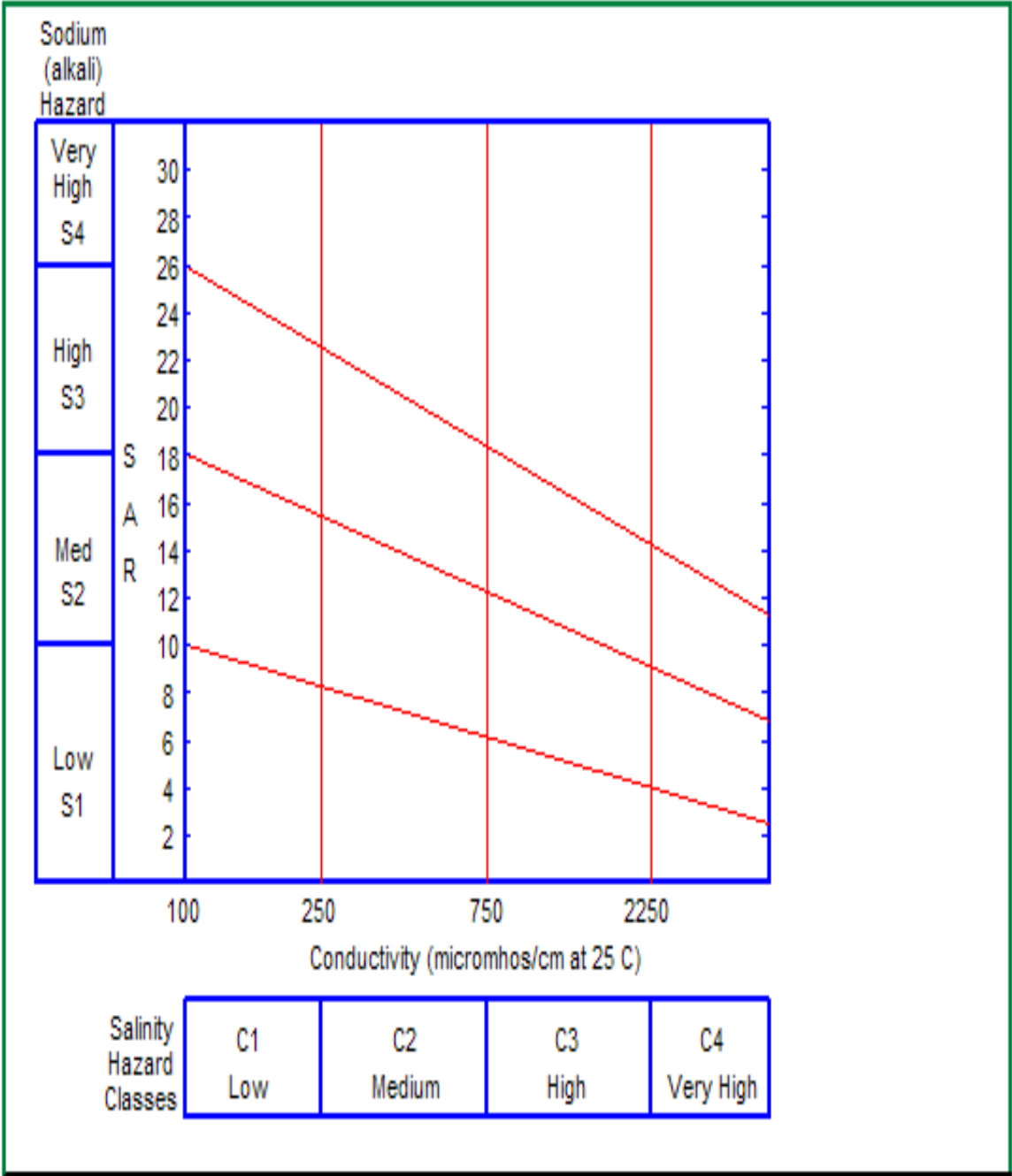
5.4 General Remarks / Conclusion about Water Quality Trend:

Trends of the river Bhavani is as follows:

The water quality of river Bhavani is good in nature. The ionic concentration is gradually increasing from upstream to downstream. The water quality of river Bhavani is little deteriorating at sites Savandapur due to direct human activities which can be seen from the above graphs.



Wilcox Diagram



ABBREVIATIONS AND SYMBOLS

Q (Cumec)	: Discharge in Cubic metre per second
EC_FLD	: Electrical Conductivity Field
EC_GEN	: Electrical Conductivity General
pH_FLD	: Negative logarithm of hydrogen ion concentration - Field
pH_GEN	: Negative logarithm of hydrogen ion concentration - General
Temp (°C)	: Temperature in degree celsius
Alk-Phen	: Phenolphthalein Alkalinity
ALK-TOT	: Total Alkalinity
B	: Boron
Ca	: Calcium
Cl	: Chloride
CO ₃	: Carbonate
F	: Fluoride
Fe	: Iron
HCO ₃	: Bicarbonate
K	: Potassium
Mg	: Magnesium
Na	: Sodium
NH ₃ -N	: Ammonia Nitrogen
NO ₂ -N	: Nitrite Nitrogen
NO ₃ -N	: Nitrate Nitrogen
o-PO ₄ -P	: Ortho Phosphate Phosphorus
SiO ₂	: Silica
SO ₄	: Sulphate
BOD	: Biochemical Oxygen Demand (3 days incubation at 27°C)
COD	: Chemical Oxygen Demand
DO	: Dissolved Oxygen
As	: Arsenic
Cd	: Cadmium
Cr	: Chromium
Cu	: Copper
Hg	: Mercury
Ni	: Nickel
Pb	: Lead
Zn	: Zinc
HAR_Ca	: Calcium Hardness
HAR_Total	: Total Hardness
Na%	: Sodium Percentage
RSC	: Residual Sodium Carbonate
SAR	: Sodium Adsorption Ratio
SRD	: Southern Rivers Division, Coimbatore
CD	: Cauvery Division, Bengaluru

TOLERANCE LIMITS OF THE WATER QUALITY PARAMETERS FOR USE IN
IRRIGATION, INDUSTRIAL, COOLING AND CONTROLLED WASTE DISPOSAL

(According to ISI publication IS: 2296 - 1982)

Sl.No.	Characteristics	Tolerance limits
1	pH	6.0 to 8.5
2	Electrical Conductance at 25°C, mhos/cm, max.	2250×10^{-6}
3	Total Dissolved Solids (inorganic)	2100
4	Sodium Adsorption Ratio, max.	26
5	Percent Sodium, max.	60
6	Boron (as B), mg/L, max.	2
7	Chlorides (as Cl) mg/L, max.	600
8	Sulphates (as SO ₄) mg/L, max.	1000

TOLERANCE LIMITS OF SELECTED WATER QUALITY
PARAMETERS FOR OTHER PURPOSES

(According to ISI publication IS: 2296 - 1982)

Sl. No.	Characteristics	Tolerance limits *			
		Class-A	Class-B	Class-C	Class-D
1	pH value	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5
2	Dissolved Oxygen mg/L, min.	6	5	4	4
3	Bio-chemical Oxygen Demand (5 days at 20°C) mg/L, max	2	3	3	-
4	Total Coliform Organisms MPN/100 ml, max.	50	500	5000	-
5	Total Dissolved Solids, mg/L, max.	500	-	1500	-
6	Chlorides (as Cl) mg/L, max.	250	-	600	-
7	Sulphates (as SO ₄) mg/L max.	400	-	400	-
8	Electrical Conductance at 25°C, mhos/cm, max.	-	-	-	1000 x 10 ⁻⁶

* Class-A : Refers drinking water without conventional treatment but after disinfection.

Class-B : Refers outdoor bathing.

Class-C : Refers drinking water with conventional treatment followed by disinfection.

Class-D : Refers fish culture and wild life propagation.